



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
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TO: Interested Parties / Applicant  
  
DATE: August 29, 2007  
RE: Oak Ridge Recycling and Disposal Facility / 017-17740-00035  
  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

**Notice of Decision: Approval – Effective Immediately**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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## Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Oak Ridge Recycling and Disposal Facility  
 2905 South, 150 East  
 Logansport, Indiana 46947**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 017-17740-00035	
Issued by: Original signed by  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 29, 2007  Expiration Date: August 29, 2012

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary municipal solid waste landfill.

Source Address:	2905 South, 150 East, Logansport, Indiana 46947
Mailing Address:	124 Twin Bridges Road, Danville, Indiana 46122
General Source Phone Number:	317 - 745 - 2878
SIC Code:	4953
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) solid waste disposal facility, as defined in 40 CFR 60.751, constructed in 1988, with a maximum design capacity of 10,984,358 megagrams.
- (b) One (1) flare, installed in 1996, used to control emissions from the landfill, with no bypass line, with a capacity of 1800 cubic feet per minute.
- (c) One (1) landfill gas recovery plant, installed in 2003, used to produce electric power, equipped with four (4) reciprocating internal combustion engines, identified as EG1 through EG4, exhausting to stacks ES1 through ES4, each rated at 8.90 million British thermal units per hour.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, including:  
  
One (1) cold cleaner parts washer, capacity: 0.3 gallons of Safety Kleen solvent per day. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

### A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 Permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

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- (a) This permit, T 017-17740-00035, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-3-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15 until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7]

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) the "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section),  
or  
Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
  - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either

the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ has issued the modification. [326 IAC 2-7-12(b)(8)]

**B.13** Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to 017-17740-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either:

- (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1 (34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11 (c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.21 Source Modification Requirement [326 IAC 2-7-10.5]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

**B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.23** Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11 (c)(3)]

**B.24** Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.25** Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

**C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

**C.2 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]**

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

**C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]**

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

**C.5 Fugitive Dust Emissions [326 IAC 6-4]**

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

**C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
  - (A) Asbestos removal or demolition start date;
  - (B) Removal or demolition contractor; or
  - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-7-6(1)]**

#### **C.7 Performance Testing [326 IAC 3-6]**

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### **C.8 Compliance Requirements [326 IAC 2-1.1-11]**

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

#### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]**

##### **C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance, except as otherwise provided for in 40 CFR 60, Subpart WWW. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

**C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

**C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
within ninety (90) days after the date of issuance of this permit.  
  
The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Except as allowed for in 40 CFR 60, Subpart WWW, upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement required by this permit shall be considered timely if the date post-marked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

#### C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

#### C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the

"responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 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 pursuant to 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.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description: Solid Waste Disposal and Landfill Gas Recovery Plant

- (a) One (1) solid waste disposal facility, as defined in 40 CFR 60.751, constructed in 1988, with a maximum design capacity of 10,984,358 megagrams.
- (b) One (1) flare, installed in 1996, used to control emissions from the landfill, with no bypass line, with a capacity of 1800 cubic feet per minute.
- (c) One (1) landfill gas recovery plant, installed in 2003, used to produce electric power, equipped with four (4) reciprocating internal combustion engines, identified as EG1 through EG4, exhausting to stacks ES1 through ES4, each rated at 8.90 million British thermal units per hour.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 General Provisions Relating to NSPS and NESHAP [326 IAC 12-1] [40 CFR Part 60, Subpart A] [326 20-1-1] [40 CFR 63, Subpart A] [326 IAC 14-1-1] [40 CFR Part 61, Subpart A]

- (a) The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart WWW.
- (b) The provisions of 40 CFR Part 61, Subpart A - General Provisions, which are incorporated as 326 IAC 14-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 61, Subpart M.
- (c) The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1-1, apply to the facility described in this section where specified by Table 1 of 40 CFR 63, Subpart AAAA.
- (d) Pursuant to a letter from the U.S. EPA Region V, dated March 3, 2004, the landfill gas recovery plant at Oak Ridge Recycling & Disposal Facility processes treated landfill gas. The four (4) engines, which combust the treated landfill gas, are not subject to the NSPS Subpart WWW testing requirements in 40 CFR 60.754, the compliance provisions in 40 CFR 60.755, the monitoring requirements in 40 CFR 60.756, the reporting requirements in 40 CFR 60.757, and the record keeping requirements in 40 CFR 60.758. The engines are also not subject to the requirements in 40 CFR 63, Subpart AAAA.

#### D.1.2 Municipal Solid Waste Landfill NSPS [326 IAC 12] [40 CFR 60.752, Subpart WWW]

The municipal solid waste landfill has a design capacity greater than 2.5 million megagrams (Mg) and shall either comply with 40 CFR 60.752 (b)(2) or calculate the non-methane organic compound (NMOC) emission rate for the landfill using the procedures specified in 40 CFR 60.754.

#### D.1.3 Operational Standards for Collection and Control Systems [40 CFR 60.753, Subpart WWW] [326 IAC 12]

In order to comply with 40 CFR 60.752 (b)(2)(ii) the Permittee shall:

- (a) Operate the collection system such that gas is collected from each area, cell, or group of cells in the municipal solid waste landfill in which solid waste has been in place for five (5) years if active or two (2) years or more if closed or at final grade.

- (b) Operate the collection system with negative pressure at each wellhead except under the following conditions:
  - (1) Fire or increased well temperature. The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1).
  - (2) Use of a geomembrane or synthetic cover. The Permittee shall develop acceptable pressure limits in the design plan.
  - (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Office of Air Quality (OAQ).
- (c) Operate each interior wellhead in the collection system with a landfill gas temperature less than 55°C and with either a nitrogen level less than twenty (20) percent or an oxygen level less than five (5) percent. The Permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
  - (1) The nitrogen level shall be determined using Method 3C, unless an alternative method is established as allowed by 40 CFR 60.752 (b)(2)(i).
  - (2) Unless an alternative test method is established as allowed by 40 CFR 60.752 (b)(2)(i), the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that; the span shall be set so that the regulatory limit is between twenty (20) and fifty (50) percent of the span; a data recorder is not required; only two calibration gases are required, a zero and span, and ambient air may be used as the span; a calibration error check is not required; the allowable sample bias, zero drift, and calibration drift are  $\pm$  ten (10) percent.
- (d) Operate the collection system so that the methane concentration is less than five hundred (500) parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at thirty (30) meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The Permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the thirty (30) meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.
- (e) Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour.
- (f) Operate the control system at all times when the collected gas is routed to the system.
- (g) If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in 40 CFR 60.753.

D.1.4 NESHAP for Asbestos Active Waste Disposal Sites [40 CFR 61.154, Subpart M] [326 IAC 14]

In order to comply with 40 CFR 61.154 the Permittee must comply with the following:

- (a) Allow no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or comply with (b) or (c) below.
- (b) At the end of each operating day, or at least once every 24-hour period, asbestos-containing waste material that has been deposited during the previous 24-hour period must:
  - (1) be covered with at least 15 centimeters (6 inches) of compacted nonasbestos containing material, or
  - (2) be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. Any used, spent, or other waste oil is not considered a dust suppression agent.
- (c) Use an alternate emissions control method that has received prior written approval by the Administrator.
- (d) Also, unless a natural barrier deters access by the general public, warning signs and fencing must be installed or the requirements of paragraph (b)(1) above must be met.

D.1.5 Municipal Solid Waste Landfill NESHAP [326 IAC 20] [40 CFR 63, Subpart AAAA]

Pursuant to 40 CFR 63.1955, the Permittee shall:

- (a) Comply with the requirements of 40 CFR 60, Subpart WWW.
- (b) If the Permittee is required by 40 CFR 60.752(b)(2) to install a collection and control system, the Permittee shall comply with the general and continuing compliance requirements in 40 CFR 63.1960 through 40 CFR 63.1985.
- (c) For approval of collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, record keeping or reporting provisions, the Permittee shall follow the procedures in 40 CFR 60.752(b)(2). If alternatives have already been approved under 40 CFR Part 60, Subpart WWW or the Federal plan, or EPA approved and effective State or tribal plan, these alternatives can be used to comply with this subpart, except that all affected sources must comply with the startup, shutdown, and malfunction (SSM) requirements in Subpart A of this part as specified in Table 1 of this subpart and all affected sources must submit compliance reports every six (6) months as specified in 40 CFR 63.1980(a) and (b), including information on all deviations that occurred during the six (6)-month reporting period. Deviations (as defined in 40 CFR 63.1965) for continuous emission monitors or numerical continuous parameter monitors must be determined using a three (3) hour monitoring block average (as defined in 40 CFR 63.1975).

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the landfill gas recovery plant and the four (4) internal combustion engines, identified as EG1 – EG4.

## Compliance Determination Requirements

### D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [40 CFR 60.754(b), Subpart WWW]

- (a) After installation of a collection and control system in compliance with 40 CFR 60.755, the Permittee shall calculate the non methane organic compound (NMOC) emission rate for purposes of determining when the system can be removed using the following equation:

$$M_{\text{NMOC}} = 1.89 \times 10^{-3} Q_{\text{LFG}} C_{\text{NMOC}}$$

where,

$M_{\text{NMOC}}$  = mass emission rate of NMOC, megagrams per year

$Q_{\text{LFG}}$  = flow rate of landfill gas, cubic meters per minute

$C_{\text{NMOC}}$  = NMOC concentration, parts per million by volume as hexane

- (1) The flow rate of landfill gas,  $Q_{\text{LFG}}$ , shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of Appendix A of 40 CFR 60.
- (2) The average NMOC concentration,  $C_{\text{NMOC}}$ , shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25C or Method 18 of Appendix A of 40 CFR 60. If using Method 18 of Appendix A of 40 CFR 60, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The Permittee shall divide the NMOC concentration from Method 25C of Appendix A of 40 CFR 60 by six (6) to convert from CNMOC as carbon to CNMOC as hexane.
- (3) The Permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Office of Air Quality (OAQ).
- (b) Pursuant to 40 CFR 60.754(d):

For the performance test required in §60.752(b)(2)(iii)(B), Method 25, 25C, or Method 18 of Appendix A of this part must be used to determine compliance with the ninety-eight (98) weight-percent efficiency or the twenty (20) ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by §60.752(b)(2)(i)(B). Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to three (3) percent. In cases where the outlet concentration is less than fifty (50) ppm, NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. If using Method 18 of appendix A of this part, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency:

$$\text{Control Efficiency} = (\text{NMOC}_{\text{IN}} - \text{NMOC}_{\text{OUT}}) / (\text{NMOC}_{\text{IN}})$$

where,

$\text{NMOC}_{\text{IN}}$  = mass of NMOC entering the control device

$\text{NMOC}_{\text{OUT}}$  = mass of NMOC exiting control device

**D.1.8 Compliance Determination [40 CFR 63.1960, Subpart AAAA] [326 IAC 20]**

Pursuant to 40 CFR 63.1960, compliance is determined in the same way it is determined for 40 CFR Part 60, Subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of Subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, you must develop a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

**D.1.9 Monitoring [40 CFR 60.756, Subpart WWW]**

Except as provided in 40 CFR 60.752(b)(2)(i)(B),

- (a) The Permittee seeking to comply with 40 CFR 60.752(b)(2)(ii)(A) for an active gas collection shall install a sampling port and a thermometer, other temperature measuring device or an access port for temperature measurements at each wellhead and:
  - (1) Measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR 60.755(a)(3);
  - (2) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 40 CFR 60.755(a)(5); and
  - (3) Monitor temperature of the landfill gas on a monthly basis as provided in 40 CFR 60.755(a)(5).
- (b) The Permittee seeking to comply with 40 CFR 60.752(b)(2)(iii) using an enclosed combustor shall calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment, except as otherwise provided for in 40 CFR 60, Subpart WWW or approved variances contained within the Collection and Control System Design Plan required pursuant to this rule:
  - (1) A temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of  $\pm$  one (1) percent of the temperature being measured expressed in degrees Celsius of  $\pm$  five-tenths (0.5) °C, whichever is greater. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.
  - (2) The Permittee seeking to comply with 40 CFR 60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:
    - (3) Heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
- (c) The Permittee seeking to comply with 40 CFR 6.752(b)(2)(iii) using a device other than an open flare or an enclosed combustor shall provide information satisfactory to the Office of Air Quality (OAQ) as provided in 40 CFR 60.752(b)(2)(i)(B) describing the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Office of Air Quality (OAQ) shall review the information and either approve it, or request that additional information be submitted. The Office of Air Quality (OAQ) may specify additional monitoring procedures.

- (d) The Permittee seeking to install a collection system that does not meet the specifications in 40 CFR 60.759 or seeking to monitor alternative parameters to those required by 40 CFR 60.753 through 40 CFR 60.756 shall provide information satisfactory to the Office of Air Quality (OAQ) as provided in 40 CFR 60.752(b)(2)(i)(B) and (C) describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Office of Air Quality (OAQ) may specify additional appropriate monitoring procedures.
- (e) The Permittee seeking to demonstrate compliance with 40 CFR 60.755(c), shall monitor surface concentrations of methane according to the instrument specifications and procedures provided in 40 CFR 60.755(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

#### D.1.10 Compliance Provisions [40 CFR 60.755, Subpart WWW]

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- (a) Except as provided in 40 CFR 60.752(b)(2)(i)(B), the specified methods below shall be used to determine whether the gas collection system is in compliance with 40 CFR 60.752(b)(2)(i).
  - (1) For the purpose of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with 60.752(b)(2)(ii)(A)(1), one of the following equations shall be used. The k and Lo kinetic factors should be those published in the most recent Compilation of Air Pollution Emission Factors (AP-42) or other site-specific values demonstrated to be appropriate and approved by the Office of Air Quality (OAQ). If k has been determined as specified in 40 CFR 60.754(a)(4), the value of k determined from the test shall be used. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.

For sites with unknown year-to-year solid waste acceptance rate:

$$Q_m = 2L_o R (e^{-kc} - e^{-kt})$$

where,

Q<sub>m</sub> = maximum expected gas generation flow rate, cubic meters per year

L<sub>o</sub> = methane generation potential, cubic meters per megagram solid waste

R = average annual acceptance rate, megagrams per year

k = methane generation rate constant, year<sup>-1</sup>

t = age of the landfill at equipment installation plus the time the owner or operator intends to use the gas mover equipment or active life of the landfill, whichever is less. If the equipment is installed after closure, t is the age of the landfill at installation, years.

c = time since closure, years (for an active landfill c = 0 and e<sup>-kc</sup> = 1)

For sites with known year-to-year solid waste acceptance rate:

$$Q_M = \sum_{i=1}^n 2 k L_O M_i (e^{-k t_i})$$

where,

Q<sub>M</sub> = maximum expected gas generation flow rate, cubic meters per year

k = methane generation rate constant, year<sup>-1</sup>

L<sub>o</sub> = methane generation potential, cubic meters per megagram solid waste

M<sub>i</sub> = mass of solid waste in the i<sup>th</sup> section, megagrams

t<sub>i</sub> = age of the i<sup>th</sup> section, years

If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the equations in 40 CFR 60.755(a)(1)(i) and (ii). If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equations in 40 CFR 60.755 (a)(1)(i) or (ii) or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment.

- (2) For the purposes of determining sufficient density of gas collector for compliance with 40 CFR 60.752 (b)(2)(ii)(A)(2), the Permittee shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Office of Air Quality (OAQ), capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.
  - (3) For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with 40 CFR 60.752(b)(2)(ii)(A)(3), the Permittee shall measure gauge pressure in the gas collection header at each individual well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedance within five (5) calendar days, except for the three conditions allowed under 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within fifteen (15) calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within one hundred twenty (120) days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.
  - (4) The Permittee is not required to expand the system as required in 40 CFR 60.755 (a)(3) during the first one hundred eighty (180) days after gas collection system start-up.
  - (5) For the purpose of identifying whether excess air infiltration into the landfill is occurring, the Permittee shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 40 CFR 60.753(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within five (5) calendar days. If correction of the exceedance cannot be achieved within fifteen (15) calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within one hundred twenty (120) days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.
  - (6) If the Permittee seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(ii)(A)(4) through the use of a collection system not conforming to the specifications provided in 40 CFR 60.759 shall provide information satisfactory to the Office of Air Quality (OAQ) as specified in 40 CFR 60.752 (b)(2)(i)(C) demonstrating that off-site migration is being controlled.
- (b) For purposes of compliance with 40 CFR 60.753(a), the Permittee shall place each well or design component of a controlled landfill as specified in the approved design plan as provided in 40 CFR 60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of five (5) years or more if active or two (2) years or more if closed or at final grade.

- (c) The following procedures shall be used for compliance with the surface methane operational standard as provided in 40 CFR 60.753 (d):
- (1) After installation of the collection system, the Permittee shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at thirty (30) meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d).
  - (2) The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least thirty (30) meters from perimeter wells.
  - (3) Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of appendix A of 40 CFR60, except that the probe inlet shall be placed within five (5) to ten (10) centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.
  - (4) Any reading of five hundred (500) parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in 40 CFR 60.755 (c)(4)(i) through (v) should be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d).

The location of each monitored exceedance shall be marked and the location recorded.

Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored with ten (10) calendar days of detecting the exceedance.

If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within ten (10) days of the second exceedance. If re-monitoring shows a third exceedance for the same location, the action specified in paragraph 40 CFR 60.755(c)(4)(v) shall be taken, and no further monitoring of that location is required until the action specified in 40 CFR 60.755(c)(4)(v) has been taken.

Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in 40 CFR 60.755(c)(4)(ii) or (iii) shall be re-monitored one (1) month from the initial exceedance. If the one (1)-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the one (1)-month re-monitoring shows an exceedance, the actions specified in 40 CFR 60.755(c)(4)(iii) or (v) shall be taken.

For any location where monitored methane concentration equals or exceeds five hundred (500) parts per million above background three (3) times within a quarterly period, a new well or other collection device shall be installed within one hundred twenty (120) calendar of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding time line for installation may be submitted to the Office of Air Quality (OAQ) for approval.

- (5) The Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.
- (d) The Permittee seeking to comply with the provisions of 40 CFR 60.755(c) shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:
  - (1) The portable analyzer shall meet the instrument specifications provided in section 3 of Method 21 of appendix A of 40 CFR 60, except that "methane" shall replace all references to volatile organic compound (VOC).
  - (2) The calibration gas shall be methane, diluted to a nominal concentration of five hundred (500) parts per million in air.
  - (3) To meet the performance evaluation requirements in section 3.1.3 of Method 21 of appendix A of 40 CFR 60, the instrument evaluation procedures of section 4.4 of Method 21 of appendix A of 40 CFR 60 shall be used.
  - (4) The calibration procedures provided in section 4.2 of Method 21 of appendix A of 40 CFR 60 shall be followed immediately before commencing a surface monitoring survey.
- (e) The provisions of 40 CFR 60.755 shall apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed five (5) days for collection systems and shall not exceed one (1) hour for treatment or control devices.

**Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**D.1.11 Reporting Requirements [40 CFR 60.757, Subpart WWW]**

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Pursuant to 40 CFR 60.757, except as provided in 40 CFR 60.752(b)(2)(i)(B), the Permittee shall:

- (a) Submit a closure report to the Office of Air Quality (OAQ) within thirty (30) days of waste acceptance cessation. The Office of Air Quality (OAQ) may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Office of Air Quality (OAQ), no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4).
- (b) Submit an equipment removal report to the Office of Air Quality (OAQ) thirty (30) days prior to removal or cessation of operation of the control equipment. The equipment removal report shall contain all of the following items: a copy of the closure report submitted in accordance with 40 CFR 60.757(d), a copy of the initial performance test report demonstrating that the fifteen (15) year minimum control period has expired, and dated copies of three (3) successive NMOC emission rate reports demonstrating that the landfill is no longer producing fifty (50) megagrams or greater of NMOC per year. The Office of Air Quality (OAQ) may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 60.752(b)(2)(v) have been met.
- (c) Annual reports of the following recorded information. The initial annual report shall be submitted within one hundred eighty (180) days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c).

- (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).
  - (2) Description and duration of all periods when the control device was not operating for a period exceeding one (1) hour and length of time the control device was not operating.
  - (3) All periods when the collection system was not operating in excess of five (5) days.
  - (4) Location of each exceedance of the five hundred (500) parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month.
  - (5) Date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4).
- (d) The Permittee seeking to comply with 40 CFR 40.752(b)(2)(iii) shall include the following information with the initial performance test report required under 40 CFR 60.8:
- (1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion.
  - (2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.
  - (3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material.
  - (4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area.
  - (5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill
  - (6) The provisions for the control of off-site migration.
- (e) Pursuant to 40 CFR 63.1980, the Permittee shall submit reports as specified in 40 CFR 60, Subpart WWW with one exception: The Permittee must submit the report described in 40 CFR 60.757(f) every six (6) months. Compliance with this condition satisfies the annual reporting requirements of Condition D.1.11(c).
- (f) A summary of the above information shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit.

D.1.12 Record Keeping for NESHAP for Active Waste Disposal Sites [40 CFR 61.154, Subpart M]

- (a) For all asbestos containing waste material received, the owner or operator of the active waste disposal site shall:

- (1) Maintain waste shipment records, using a form similar to that shown in Figure 4 of 40 CFR 61, Subpart M, and include the following information
    - (i) The name, address, and telephone number of the waste generator;
    - (ii) The name, address, and telephone number of the transporter(s);
    - (iii) The quantity of the asbestos containing waste material in cubic meters (cubic yards).
    - (iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
    - (v) The date of the receipt.
  - (2) As soon as possible and no longer than thirty (30) days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
  - (3) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within fifteen (15) days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
  - (4) Retain a copy of all records and reports required by this paragraph for at least two (2) years.
- (b) Maintain until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
  - (c) Upon closure, comply with all the provisions of 40 CFR 61.151.
  - (d) Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
  - (e) Furnish upon request, and make available during normal business hours for inspection by the Administrator, all records required under this section.
  - (f) Notify the Administrator in writing at least forty-five (45) days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the

Administrator at least ten (10) working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

- (1) Scheduled starting and completion dates.
- (2) Reason for disturbing the waste.
- (3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.
- (4) Location of any temporary storage site and the final disposal site.

D.1.13 Record Keeping Requirements [326 IAC 12] [40 CFR 60.758, Subpart WWW]

- (a) Except as provided in 40 CFR 60.752(b)(2)(i)(B) the Permittee subject to 40 CFR 60.752(b) shall keep for at least five years up-to-date, readily accessible, continuous on-site records of the design capacity report which triggered 40 CFR 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four (4) hours. Either paper copy or electronic formats are acceptable.
- (b) Except as provided in 40 CFR 60.752(b)(2)(i)(B) or approved variances contained within the Collection and Control System Design Plan required pursuant to this rule, the Permittee of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment listed in (a) through (d) below as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of five (5) years. Records of control device vendor specifications shall be maintained until removal.
  - (1) Where the Permittee subject to the provisions of 40 CFR 60.758 seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(ii):

The maximum expected gas generation flow rate as calculated in 40 CFR 60.755 (a)(1). The Permittee may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Office of Air Quality (OAQ).

The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR 60.759(a)(1).
  - (2) Where the Permittee subject to the provisions of 40 CFR 60.758 seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(iii) through use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity greater than 44 megawatts:

The average combustion temperature measured at least every fifteen (15) minutes and averaged over the same time period of the performance test.

The percent reduction of NMOC determined as specified in 40 CFR 60.752(b) (2)(iii) (B) achieved by the control device.
  - (3) Where the Permittee subject to the provisions of 40 CFR 60.758 seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(iii)(B)(1) through use of a boiler or

process heater of any size: a description of the location at which the collected gas vent stream is introduced into the boiler or process heater over the same time period of the performance testing.

- (4) Where the Permittee subject to the provisions of 40 CFR 60.758 seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(iii)(A) through use of an open flare, the flare type (i.e., steam-assisted, air -assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 CFR 60.18; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.
- (c) Except as provided in 40 CFR 60.752(b)(2)(i)(B) the Permittee of a controlled landfill subject to the provisions of this subpart shall keep for five years up-to-date, readily accessible, continuous on-site records of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.
- (1) The following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f):

For enclosed combustors except for boilers and process heaters with design heat input capacity of forty-four (44) megawatts (one hundred fifty (150) million British thermal unit per hour) or greater, all three (3) hour periods of operation during which the average combustion temperature was more than twenty-eight degrees Celcius (28°C) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined.

For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under 40 CFR 60.758 (b)(3)(i) of this section
  - (2) The Permittee subject to the provisions of 40 CFR 60.758 who uses a boiler or process heater with a design heat input capacity of forty-four (44) megawatts or greater to comply with 40 CFR 60.752(b)(2)(iii) shall keep an up-to-date, readily accessible record of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal or Federal regulatory requirements.)
  - (3) The Permittee seeking to comply with the provisions of 40 CFR 60.758 by use of an open flare shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under 40 CFR 60.756(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.
- (d) Except as provided in 40 CFR 60.752(b)(2)(i)(B) the Permittee subject to the provisions of this subpart shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
- (1) The Permittee subject to the provisions of 40 CFR 60.758 shall keep up-to-date, readily accessible records of the installation date and location of all newly installed

collectors as specified in 40 CFR 60.755 (b).

- (2) The Permittee subject to the provisions of 40 CFR 60.758 shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR 60.759 (a)(3)(i) as well as any non-productive areas excluded from collection as provided in 40 CFR 60.759 (a)(3)(ii).
- (e) Except as provided in 40 CFR 60.752(b)(2)(i)(B) the Permittee subject to the provisions of this subpart shall keep for at least five (5) years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.
- (f) Permittees who convert design capacity from volume to mass or mass to volume to demonstrate that landfill design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, as provided in the definition of "design capacity", shall keep readily accessible, on-site records of the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.
- (g) Pursuant to 40 CFR 63.1980, the Permittee shall keep records as specified in 40 CFR 60, Subpart WWW.
- (h) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, including:

One (1) cold cleaner parts washer, capacity: 0.3 gallons of Safety Kleen solvent per day.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2][326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the one (1) cold cleaner parts washer without a remote solvent reservoir shall:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
  - (B) The solvent is agitated; or
  - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

- (B) A water cover when solvent is used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of the one (1) cold cleaner parts washer, shall:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.
- (c) The owner or operator of the one (1) cold cleaner parts washer shall also comply with 326 IAC 8-3-2. Compliance with 326 IAC 8-3-5 shall also ensure compliance with 326 IAC 8-3-2.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Oak Ridge Recycling and Disposal Facility  
Source Address: 2905 South, 150 East, Logansport, Indiana 46947  
Mailing Address: 124 Twin Bridges Road, Danville, Indiana 46122  
Part 70 Permit No.: T 017-17740-00035

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Oak Ridge Recycling and Disposal Facility  
Source Address: 2905 South, 150 East, Logansport, Indiana 46947  
Mailing Address: 124 Twin Bridges Road, Danville, Indiana 46122  
Part 70 Permit No.: T 017-17740-00035

**This form consists of 2 pages**

**Page 1 of 2**

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.
--

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Oak Ridge Recycling and Disposal Facility  
 Source Address: 2905 South, 150 East, Logansport, Indiana 46947  
 Mailing Address: 124 Twin Bridges Road, Danville, Indiana 46122  
 Part 70 Permit No.: T 017-17740-00035

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## Indiana Department of Environmental Management Office of Air Quality

Addendum to the  
Technical Support Document for a Part 70 Operating Permit Renewal

**Source Name:** Oak Ridge Recycling and Disposal Facility  
**Source Location:** 2905 South, 150 East, Logansport, Indiana 46947  
**County:** Cass  
**SIC Code:** 4953  
**Operation Permit No.:** T 017-17740-00035  
**Permit Reviewer:** Brian J. Pedersen/MES

On May 25, 2007, the Office of Air Quality (OAQ) had a notice published in the Pharos Tribune, Logansport, Indiana, stating that Oak Ridge Recycling and Disposal Facility had applied for a Part 70 Operating Permit Renewal to operate stationary municipal solid waste landfill with a flare used for control. The notice also stated that OAQ proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating Permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Part 70 Operating Permit should be issued as proposed.

On June 21, 2007, Matthew W. Rehtin of Oak Ridge Recycling and Disposal Facility submitted comments on the proposed Part 70 Operating Permit Renewal. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

### Comment 1:

The correct source address is: 2905 South, 150 East, Logansport, Indiana 46947

### Response 1:

IDEM, OAQ has made the following correction to the address throughout the permit document:

~~R.R. #3 365B County Road 150 East, Logansport, IN 46947~~  
**2905 South, 150 East, Logansport, IN 46947**

### Comment 2:

Please add "variances contained within the Collection and Control System Design Plan required pursuant to this rule" in Condition B.15 (Deviations from Permit Requirements and Conditions), C.9 (Compliance Monitoring), and C.14 (Response to Excursions or Exceedances) as previously negotiated and stated in the original Title V permit.

### Response 2:

The language used in the draft permit allows for a different schedule or submittal procedure for deviation reports required by another applicable requirement independent of the Title V permit. IDEM prefers to use this more general language than the specific language provided by the source, because it will cover all applicable requirements, and not just the Collection and Control System Design Plan required by 40 CFR 60, Subpart WWW. Also, the deviation report for all Title V permit provisions is now required by IDEM on a quarterly basis and not within ten (10) calendar days.

### B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive

measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

~~within ten (10) calendar days from the date of discovery of the deviation except as allowed for in 40 CFR 60, Subpart WWW. The Permittee shall use~~ **using** the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**Comment 3:**

Please note that flare in Paragraph (b) of Section A.2, is not equipped with a bypass line.

**Response 3:**

IDEM, OAQ has decided to add the following language to Section A.2 and the Emission Unit Description box in Section D.1:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) solid waste disposal facility, as defined in 40 CFR 60.751, constructed in 1988, with a maximum design capacity of 10,984,358 megagrams.
- (b) One (1) flare, installed in 1996, used to control emissions from the landfill, **with no bypass line**, with a capacity of 1800 cubic feet per minute.
- (c) One (1) landfill gas recovery plant, installed in 2003, used to produce electric power, equipped with four (4) reciprocating internal combustion engines, identified as EG1 through EG4, exhausting to stacks ES1 through ES4, each rated at 8.90 million British thermal units per hour.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description: Solid Waste Disposal and Landfill Gas Recovery Plant

- (a) One (1) solid waste disposal facility as defined in 40 CFR 60.751, constructed in 1988, with a maximum design capacity of 10,984,358 megagrams.
- (b) One (1) flare, installed in 1996, used to control emissions from the landfill, **with no bypass line**, with a capacity of 1800 cubic feet per minute.
- (c) One (1) landfill gas recovery plant, installed in 2003, used to produce electric power, equipped with four (4) reciprocating internal combustion engines, identified as EG1 through EG4, exhausting to stacks ES1 through ES4, each rated at 8.90 million British thermal units per hour.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

#### Comment 4:

Consistent with other Part 70 permit renewals, Condition C.3 (Open Burning) and C.5 (Fugitive Dust Emissions) should not be federally enforceable and should be stated as such.

#### Response 4:

IDEM, OAQ agrees and has decided to make the following changes to Condition C.3 (Open Burning) and C.5 (Fugitive Dust Emissions):

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. **326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.**

#### C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). **326 IAC 6-4-2(4) is not federally enforceable.**

#### Comment 5:

In Condition D.1.1 (General Provisions Relating to NSPS and to HAPs), please note that the four (4) landfill gas engines are also not subject to the requirements of 40 CFR 63 Subpart ZZZZ for stationary reciprocating internal combustion engines because Oak Ridge is not a major source of HAPs. Also, the Condition D.1.1(d) the gas recovery plant is not a treatment system itself, it processes treated landfill gas.

#### Response 5:

The Technical Support Document notes that the four (4) landfill gas engines are not subject to the requirements of 40 CFR 63, Subpart ZZZZ because Oak Ridge Recycling and Disposal Facility is not a major source of HAPs, as defined in 40 CFR 63.2. Therefore, it is not necessary to add this comment to Condition D.1.1. Also, to amend the intent of the letter from the U.S. EPA Region V,

dated March 3, 2004, IDEM, OAQ has made the following change:

D.1.1 General Provisions Relating to NSPS and NESHAP [326 IAC 12-1] [40 CFR Part 60, Subpart A]  
[326 20-1-1] [40 CFR 63, Subpart A] [326 IAC 14-1-1] [40 CFR Part 61, Subpart A]

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\* \* \*

- (d) Pursuant to a letter from the U.S. EPA Region V, dated March 3, 2004, the landfill gas recovery plant at Oak Ridge Recycling & Disposal Facility **processes treated landfill gas is considered a treatment system**. The four (4) engines, which combust the treated landfill gas, are not subject to the NSPS Subpart WWW testing requirements in 40 CFR 60.754, the compliance provisions in 40 CFR 60.755, the monitoring requirements in 40 CFR 60.756, the reporting requirements in 40 CFR 60.757, and the record keeping requirements in 40 CFR 60.758. The engines are also not subject to the requirements in 40 CFR 63, Subpart AAAA.

**Comment 6:**

The annual report being referred to is located in Condition D.1.11(c), not Condition D.1.13(f).

**Response 6:**

IDEM, OAQ agrees and has decided to make the following change:

D.1.11 Reporting Requirements [40 CFR 60.757, Subpart WWW]

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\* \* \*

- (e) Pursuant to 40 CFR 63.1980, the Permittee shall submit reports as specified in 40 CFR 60, Subpart WWW with one exception: The Permittee must submit the report described in 40 CFR 60.757(f) every six (6) months. Compliance with this condition satisfies the annual reporting requirements of Condition **D.1.11(c)** ~~D.1.13(f)~~.
- (f) A summary of the above information shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit.

**Comment 7:**

With the exception of the cold cleaner and small engines, the emissions listed under the column heading "VOC" are really emissions of NMOC. Per Section 2.4 of AP-42, emissions of NMOC should be multiplied by 39% to convert them to VOC.

**Response 7:**

IDEM, OAQ does not agree. NMOC is a more conservative estimate for VOC, as determined by the original Title V and has been used as a surrogate for VOC in other landfills. Therefore, there is no change as a result of this comment.

**Comment 8:**

Please remove all insignificant activities from the potential to emit table. Oakridge Recycling and Disposal Facility is not aware of any municipal solid waste landfill Part 70 permits with insignificant activities.

**Response 8:**

IDEM, OAQ does not agree. Insignificant activities must have emissions quantified because they are needed in determining the total potential to emit of a source and the permit level.

**Comment 9:**

HCL, which is a HAP, is expected to be a product of landfill gas combustion. HCL emissions from the flare and landfill gas engines may be calculated using the same methodology as sulfur dioxide on Page 4 of 7 of Appendix A, except that a molecular weight of 36.5 for HCL and an "emission factor" of 12 ppmv. This yields HCL emissions of 0.54 tons per year and 0.36 tons per year for the flare and engines, respectively. Also, the methodology for NMOC and SO<sub>2</sub> is correct however there is an error in the calculated values. Lastly, the emission factor for NO<sub>x</sub> should be 68 pounds per MM dscf of methane for the flare.

**Response 9:**

Revised calculations for the engines and the flare are attached as an Addendum to Appendix A. There are no changes in the applicable rules for this source due to the changes in the potential to emit. The potential to emit of the source is revised as follows:

Process/Emission Unit	Potential To Emit (tons/yr)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Solid Waste Disposal Facility	-	-	-	29.7	-	-	3.34
Landfill Flare	4.02	4.02	<del>3.74</del> 0.079	<del>1.00</del> 0.009	87.5	<del>16.1</del> 9.46	<del>0.665</del> 0.119
Internal Combustion Engines	7.57	7.57	<del>2.49</del> 0.202	<del>0.43</del> 0.020	74.1	39.4	<del>0.426</del> 0.080
*Fugitive Emissions from Roadways (Fugitive)	37.4	7.96	-	-	-	-	-
Insignificant Crusher	0.344	0.344	-	-	-	-	-
Insignificant Parts Washer	-	-	-	0.372	-	-	-
Insignificant Crankcase Breather Vent	3.60	3.60	-	-	-	-	-
Insignificant Combustion	2.14	2.14	1.98	2.44	6.52	30.3	0.044
Total Emissions	17.7	17.7	<del>8.21</del> 2.26	<del>33.9</del> 32.5	168	<del>85.8</del> 79.2	<del>4.48</del> 3.58

**Addendum to Appendix A: Emission Calculations**  
**Revised Total Emission Summary**  
**Four (4) Reciprocating Engines and one (1) Flare firing Landfill Gas**

**Company Name: Oak Ridge Recycling and Disposal Facility**  
**Address City IN Zip: 2905 South, 150 East, Logansport, IN 46947**  
**Permit Number: T 017-17740-00035**  
**Reviewer: Brian J. Pedersen**  
**Date: July 5, 2007**

Total Fuel Input MMBtu/hr	NMOC ppmv	Flow Rate scfm	
8.9	500	1,200	For the four (4) reciprocating engines
52.3	500	1,800	For the one (1) flare

	Pollutant						
	PM*	PM10*	SO2	NOx	NMOC	CO	HCL
Emission Factors for reciprocating engines	48	48	46.9	250	500	470	12.0
Emission Factors for the one (1) flare	17	17	46.9	68	500	370	12.0
Potential Emission in tons/yr for the reciprocating engines	7.57	7.57	2.49	39.4	1.00	74.1	0.364
Potential Emission in tons/yr for the one (1) flare	4.02	4.02	3.74	16.1	0.429	87.5	0.546

**Methodology**

PTE of PM/PM10/NOx/CO Emissions (tons/year) = Total Flow Rate (scfm landfill gas) / 10<sup>6</sup> \* Emission Factor (lb/10<sup>6</sup> dscf) \* 0.5 (concentration Methane in landfill gas \* 60 (min/hr) \* 8760 \* 0.0005 (ton/lb))  
PTE of SO2/HCL Emissions (tons/yr) = Flow Rate (scfm) \* Emission Factor (ppmv) / 10<sup>6</sup> \* 1 atm / Gas Constant (0.7302 atm-cf/lb more- R) / Temp (60F + 460) \* Mole Weight of SO2 ( 64 lbs/lbs mole) or Mole Weight of HCL (36.5 lbs/lbs mole) \* 60 min/hr \* 8760 hr/yr \* 1 ton/2000 lbs  
PTE of NMOC Emissions (tons/yr) = Flow Rate (scfm) \* Emission Factor (ppmv) / 10<sup>6</sup> \* 1 atm / Gas Constant (0.7302 atm-cf/lb more- R) / Temp (60F + 460) \* Mole Weight of Hexane ( 86 lbs/lbs mole) \* 60 min/hr \* 8760 hr/yr \* 1 ton/2000 lbs \* (1-assumed destruction from flare or IC engine obtained from AP-42 Section 2.4)

Emission Factors are from AP-42 Chapter 2.4 - Municipal Solid Waste Landfills - Table 2.4-5 and Table 13.5-1 Industrial Flares  
The total inlet concentration of Sulfur content compounds in AP-42, Chapter 2.4  
The NMOC concentration is from site specific test data

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Oak Ridge Recycling and Disposal Facility</b>
<b>Source Location:</b>	<b>R.R. #3 365B County Road 150 East, Logansport, Indiana 46947</b>
<b>County:</b>	<b>Cass</b>
<b>SIC Code:</b>	<b>4953</b>
<b>Operation Permit No.:</b>	<b>T 017-7945-00035</b>
<b>Operation Permit Issuance Date:</b>	<b>April, 20, 1999</b>
<b>Permit Renewal No.:</b>	<b>T 017-17740-00035</b>
<b>Permit Reviewer:</b>	<b>Brian J. Pedersen</b>

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Oak Ridge Recycling and Disposal Facility relating to the operation of a stationary municipal solid waste (MSW) landfill.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) solid waste disposal facility, as defined in 40 CFR 60.751, constructed in 1988, with a maximum design capacity of 10,984,358 megagrams.
- (b) One (1) flare, installed in 1996, used to control emissions from the landfill, with a capacity of 1800 cubic feet per minute.
- (c) One (1) landfill gas recovery plant, installed in 2003, used to produce electric power, equipped with four (4) reciprocating internal combustion engines, identified as EG1 through EG4, exhausting to stacks ES1 through ES4, each rated at 8.90 million British thermal units per hour.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

**New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval**

There are no proposed emission units during this review process.

**Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Two (2) propane-fired space heaters with a heat input capacity of 0.150 million British thermal units per hour, each.
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour, including the following:

- (1) One (1) diesel-fired internal combustion tipper engine, identified as Tipper1, with a power output of 116 horsepower.
  - (2) Two (2) diesel-fired internal combustion welder engines, with a power output of 7.5 horsepower, each.
  - (3) Three (3) diesel-fired internal combustion pump engines, with a power output of 25 horsepower, each.
  - (4) Two (2) diesel-fired internal combustion air compressor engines, with a power output of 7.5 horsepower, each.
- (c) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (e) The following VOC and HAP storage containers:  
Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids
- (f) Cleaners and solvents characterized as follows:
- (1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
  - (2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (g) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (h) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (i) On-site fire and emergency response training approved by the department.
- (j) Emergency generators as follows:  
Gasoline generators not exceeding 110 horsepower.
- (k) Farm Operations
- (l) Other activities or categories not previously identified:
- (1) Leachate Storage Tank #1;
  - (2) Leachate Storage Tank #2;
  - (3) Solidification process;

- (4) Leachate Recirculation; and
- (5) Passive flare.
- (n) The following VOC and HAP storage containers:  
  
Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons, installed prior to 1999, including:
  - (1) One (1) engine oil storage tank, capacity: 1,000 gallons of engine oil.
  - (2) One (1) waste oil storage tank, capacity: 1,000 gallons of waste oil.
  - (3) One (1) anti-freeze storage tank, capacity: 550 gallons of anti-freeze.
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, including:  
  
One (1) cold cleaner parts washer, capacity: 0.3 gallons of Safety Kleen solvent per day.  
[326 IAC 8-3-2] [326 IAC 8-3-5]
- (p) Other activities or categories not previously identified with emissions equal to or less than the insignificant thresholds of five (5) pounds per hour or twenty-five (25) pounds per day for PM, SO<sub>2</sub>, and/or NO<sub>x</sub>, three (3) pounds per hour or fifteen (15) pounds per day for VOC, twenty-five (25) pounds per day for CO or 0.6 tons per year or 3.29 pounds per day of lead:
  - (1) One (1) crankcase breather vent for engine oil, with potential PM emissions estimated to be 19.72 pounds per day.
  - (2) One (1) gas chromatograph vent, with negligible emissions of all criteria pollutants.
- (q) One (1) temporary portable concrete and rock crushing operation, identified as Crusher, operated by an outside contractor for no more than six (6) weeks a year, nine (9) hour per day, used to prepare wastes for disposal, capacity is less than one hundred fifty (150) tons per hour.
- (r) One (1) petroleum contaminated soil operation, identified as PCS-Cover, used for daily and intermediate cover, which does not have to be remediated prior to delivery, with negligible HAP and VOC emissions.

### Existing Approvals

The source has been operating under the previous Part 70 Operating Permit 017-7945-00035 issued on April 20, 1999, and the following amendments and modifications:

- (a) SSM 017-16796-00035, issued on August 15, 2003;
- (b) SPM 017-16940-00035, issued on September 10, 2003;
- (c) SPM 017-21112-00035, issued on July 15, 2005;
- (d) AA 017-21112-00035, issued on July 15, 2005; and

(e) SPM 017-20084-00035, issued on December 6, 2005.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this proposed permit. All previous registrations and permits are superseded by this permit.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

The staff recommends to the Commissioner that the Part 70 Operating Permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on July 21, 2003, with additional information received on September 25, October 5, 11, 18, 2006 and March 2, and 19, 2007.

### **Emission Calculations**

See pages 1 through 7 of Appendix A of this document for detailed emission calculations.

HAP calculations for the engines were provided by the source, were reviewed and determined to be accurate and correct. AP-42 emission factors were used to calculate the HAP emissions from the engines while burning landfill gas. The potential to emit combined HAPs from the engines while burning landfill gas is 0.160 tons per year.

The potential to emit PM and PM<sub>10</sub> from the insignificant crankcase breather vent was estimated to be 19.72 pounds per day, equivalent to 3.60 tons per year, as shown below:

Four (4) reciprocating internal combustion engines \* 20 gallons per month \* 0.89 (specific gravity) \* 8.31 pounds/gallon \* 1 month/30 days \* 1 day/24 hours \* 8760 hours/year \* 1 ton/2000 pounds = 3.60 tons/year of particulate matter.

The one (1) portable concrete and rock crushing operation has potential PM and PM<sub>10</sub> emissions of 0.344 tons per year, based upon Table 11.17-4 of AP-42, as shown below:

40,500 tons of waste per year \* 0.017 pounds per ton \* 1 ton/2000 pounds = 0.344 tons of particulate matter.

The EPA Landfill Air Emission Estimation Model in Appendix B of this document has been used to estimate emissions from the solid waste disposal facility.

### **Unrestricted Potential Emissions**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA."

Pollutant	Potential to Emit (tons/yr)
PM	55.1
PM <sub>10</sub>	25.6
SO <sub>2</sub>	2.26
VOC	121
CO	168
NO <sub>x</sub>	79.2

HAPs	Potential to Emit (tons/yr)
Total	3.58

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC and CO are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.
- (c) **Fugitive Emissions**  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Potential to Emit of the Source**

The source was issued a Part 70 Operating Permit on April 20, 1999. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential To Emit (tons/yr)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Solid Waste Disposal Facility	-	-	-	29.7	-	-	3.34
Landfill Flare	4.02	4.02	0.079	0.009	87.5	9.46	0.119
Internal Combustion Engines	7.57	7.57	0.202	0.020	74.1	39.4	0.080
*Fugitive Emissions from Roadways (Fugitive)	37.4	7.96	-	-	-	-	-
Insignificant Crusher	0.344	0.344	-	-	-	-	-
Insignificant Parts Washer	-	-	-	0.372	-	-	-
Insignificant Crankcase Breather Vent	3.60	3.60	-	-	-	-	-
Insignificant Combustion	2.14	2.14	1.98	2.44	6.52	30.3	0.044
Total Emissions	17.7	17.7	2.26	32.5	168	79.2	3.58

\* Fugitive emissions from roads are not counted towards the major source determination.

### Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not Reported
PM <sub>10</sub>	4.00
SO <sub>2</sub>	13.0
VOC	8.00
CO	74.0
NO <sub>x</sub>	34.0
HAP	Not Reported

## County Attainment Status

The source is located in Cass County.

Pollutant	Status
PM <sub>2.5</sub>	Attainment
PM <sub>10</sub>	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
8-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Cass County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (b) Cass County has been classified as unclassifiable or attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions. See the State Rule Applicability for the source section.
- (c) Cass County has been classified as attainment or unclassifiable in Indiana for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

## Part 70 Operating Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 Operating Permits.
- (b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

## Federal Rule Applicability

- (a) This source does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 that has the potential to emit before controls equal to or greater than the major source

threshold for VOC. However, VOC is limited by a post 1990 NESHAP, (40 CFR 63, Subpart AAAA) and a post 1990 NSPS (40 CFR 60, Subpart WWW) even though NMOC is the intended regulated pollutant for which these standards apply because VOC is a component of NMOC.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

- (b) The requirements of the New Source Performance Standard for Volatile Organic Compounds for Which Construction, Reconstruction, or Modification commenced after July 23, 1984, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb, are not included in the permit for this source. This is because although the three (3) insignificant storage tanks were installed after the rule applicability date of July 23, 1984, their storage capacities are less than seventy five (75) cubic meters.
- (c) The municipal solid waste landfill is subject to the New Source Performance Standard for Municipal Solid Waste Landfills, 326 IAC 12, (40 CFR 60.750, Subpart WWW) because the municipal solid waste landfill commenced construction, reconstruction or modification or began accepting waste on or after May 30, 1991 and the design capacity is greater than 2.5 million megagrams. Pursuant to T 017-7945-00035 issued on April 20, 1999, this landfill was modified in 1993.

According to a letter from the U.S. EPA dated March 3, 2004, the gas recovery plant located at Oak Ridge Recycling and Disposal Facility is not subject to the testing requirements in 40 CFR 60.754, the compliance provisions of 40 CFR 60.755, the monitoring requirements in 40 CFR 60.756, the reporting requirements of 40 CFR 60.757, and the record keeping requirements of 40 CFR 60.758 because the four (4) reciprocating internal combustion engines, identified as EG1 through EG4, use treated landfill gas.

Note that emissions from any atmospheric vent from the gas treatment system, including any compressor, are still subject to the emission control requirements in 40 CFR 60.752 (b) (2)(iii)(A) and (B). This does not include exhaust from an energy recovery device (landfill combustion engines).

In order to comply with 40 CFR 60.752 (b)(2)(ii) the Permittee shall:

- (1) Operate the collection system such that gas is collected from each area, cell, or group of cells in the municipal solid waste landfill in which solid waste has been in place for five (5) years if active or two (2) years or more if closed or at final grade.
- (2) Operate the collection system with negative pressure at each wellhead except under the following conditions:
  - (A) Fire or increased well temperature. The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757 (f)(1).
  - (B) Use of a geomembrane or synthetic cover. The Permittee shall develop acceptable pressure limits in the design plan.
  - (C) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Office of Air Quality (OAQ).

- (3) Operate each interior wellhead in the collection system with a landfill gas temperature less than 55°C and with either a nitrogen level less than twenty (20) percent or an oxygen level less than five (5) percent. The Permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
  - (A) The nitrogen level shall be determined using Method 3C, unless an alternative method is established as allowed by 40 CFR 60.752 (b)(2)(i).
  - (B) Unless an alternative test method is established as allowed by 40 CFR 60.752 (b)(2)(i), the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that; the span shall be set so that the regulatory limit is between twenty (20) and fifty (50) percent of the span; a data recorder is not required; only two calibration gases are required, a zero and span, and ambient air may be used as the span; a calibration error check is not required; the allowable sample bias, zero drift, and calibration drift are  $\pm 10$  percent.
- (4) Operate the collection system so that the methane concentration is less than five hundred (500) parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at thirty (30) meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The Permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the thirty (30) meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.
- (5) Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour.
- (6) Operate the control system at all times when the collected gas is routed to the system.
- (7) If monitoring demonstrates that the operational requirements in 40 CFR 60.753 (b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in 40 CFR 60.753.

The source currently complies with the federal requirements. This is accomplished by means of a properly engineered, installed and operated collection and control system that collects and combusts landfill gas.

The provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart WWW.

- (d) There are no other New Source Performance Standards included in the permit for this source.
- (e) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Asbestos 326 IAC 14-2-1, (40 CFR 61.154, Subpart M) because the landfill accepts asbestos-containing waste material. This rule requires that any active waste disposal site that receives asbestos-containing waste material must either:
  - (1) Allow no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or comply with (2) or (3) below.
  - (2) At the end of each operating day or, at least once every 24-hour period, asbestos-containing waste material that has been deposited during the previous 24-hour period must:
    - (A) Be covered with at least fifteen (15) centimeters (6 inches) of compacted nonasbestos containing material, or
    - (B) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. Any used, spent, or other waste oil is not considered a dust suppression agent.
  - (3) Use an alternate emissions control method that has received prior written approval by the Administrator.
  - (4) Also, unless a natural barrier deters access by the general public, warning signs and fencing must be installed or the requirements of paragraph (b)(1) above must be met.
  - (5) For all asbestos containing waste material received, the owner or operator of the active waste disposal site shall:
    - (A) Maintain waste shipment records and include the following information
      - (i) The name, address, and telephone number of the waste generator;
      - (ii) The name, address, and telephone number of the transporter(s);
      - (iii) The quantity of the asbestos containing waste material in cubic meters (cubic yards).
      - (iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the local, State, or EPA Regional office

responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.

- (B) As soon as possible and no longer than thirty (30) days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
  - (C) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within fifteen (15) days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
  - (D) Retain a copy of all records and reports required by this paragraph for at least two (2) years.
- (6) Maintain until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
  - (7) Upon closure, comply with all the provisions of 40 CFR 61.151.
  - (8) Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
  - (9) Furnish upon request, and make available during normal business hours for inspection by the Administrator, all records required under this section.
  - (10) Notify the Administrator in writing at least forty-five (45) days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Administrator at least ten (10) working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
    - (A) Scheduled starting and completion dates.
    - (B) Reason for disturbing the waste.
    - (C) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.

- (D) Location of any temporary storage site and the final disposal site
- (f) This source is subject to the requirements of National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Municipal Solid Waste Landfills (40 CFR 63.1930, Subpart AAAA). This source has accepted waste since November 8, 1987, has a design capacity greater than 2.5 million megagrams, and has uncontrolled NMOC emissions greater than 50 megagrams per year (Mg/yr) (as calculated using the procedures specified in 40 CFR 60.754(a)(1)). This landfill site does not include a bioreactor, as defined in 40 CFR 63.1990.

According to a letter from the U.S. EPA dated March 3, 2004, the gas recovery plant located at Oak Ridge Recycling and Disposal Facility is not subject to the testing requirements in 40 CFR 60.754, the compliance provisions of 40 CFR 60.755, the monitoring requirements in 40 CFR 60.756, the reporting requirements of 40 CFR 60.757, and the record keeping requirements of 40 CFR 60.758. The four (4) 8.90 million British thermal units per hour internal combustion engines, identified as EG1 through EG4 are also not subject to the requirements in 40 CFR 63, Subpart AAAA because the four (4) reciprocating internal combustion engines, identified as EG1 through EG4, use treated landfill gas.

- (1) Pursuant to 40 CFR 63.1955, the Permittee shall:
- (A) Comply with the requirements of 40 CFR 60, Subpart WWW.
  - (B) If the source is required by 40 CFR 60.752(b)(2) to install a collection and control system, the source shall comply with the general and continuing compliance requirements in 40 CFR 63.1960 through 40 CFR 63.1985.
  - (C) For approval of collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions, the Permittee must follow the procedures in 40 CFR 60.752(b)(2). If alternatives have already been approved under 40 CFR Part 60 Subpart WWW or the Federal plan, or EPA approved and effective State or tribal plan, these alternatives can be used to comply with this subpart, except that all affected sources must comply with the startup, shutdown, and malfunction (SSM) requirements in Subpart A of this part as specified in Table 1 of this subpart and all affected sources must submit compliance reports every six (6) months as specified in 40 CFR 63.1980(a) and (b), including information on all deviations that occurred during the 6-month reporting period. Deviations (as defined in 40 CFR 63.1965) for continuous emission monitors or numerical continuous parameter monitors must be determined using a three (3) hour monitoring block average (as defined in 40 CFR 63.1975).
- (2) Pursuant to 40 CFR 63.1960, compliance with 40 CFR 63, Subpart AAAA is determined by the following:
- (A) By complying with the requirements of 40 CFR 60.754 for performance testing, and 60.756 for monitoring of the collection system, continuous parameter monitoring, and other credible evidence.
  - (B) Continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of subpart WWW, are used to demonstrate compli-

ance with the operating conditions for control systems. If a deviation (as defined in 40 CFR 63.1965) occurs, the Permittee has failed to meet the control device operating conditions described in 40 CFR 60, Subpart WWW and has deviated from the requirements of this subpart.

- (C) The Permittee must develop and implement a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write, implement, or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.
- (3) Pursuant to 40 CFR 63.1980, the Permittee has the following record keeping and reporting requirements:
  - (A) The Permittee shall keep records and reports as specified in 40 CFR 60, Subpart WWW, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR 60, Subpart Cc, whichever applies to this landfill, with one exception: The Permittee must submit the annual report described in 40 CFR 60.757(f) every six (6) months.
  - (B) The Permittee shall keep records and reports as specified in the general provisions of 40 CFR Part 60 and 40 CFR 63 as shown in Table 1 of 40 CFR 63, Subpart AAAA. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.
- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart ZZZZ, Reciprocating Internal Combustion Engines, are not included in the permit because this source is not a major source of HAPs, as defined in 40 CFR 63.2.
- (h) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

#### **State Rule Applicability – Entire Source**

##### **326 IAC 2-2 (Prevention of Significant Deterioration (PSD))**

This source was reclassified as a minor source pursuant to SSM 017-16796-00035, issued on August 15, 2003. Since the potential to emit for the entire source after the modification from SSM 017-16796-00035, issued on August 15, 2003, was less than two-hundred fifty (250) tons per year for all pollutants, and it is not one of the twenty-eight (28) listed source categories, this source remained a minor source, after the modification, pursuant to 326 IAC 2-2.

##### **326 IAC 2-4.1-1 (New source toxics control)**

The operation of a stationary municipal solid waste landfill will emit less than ten (10) tons per year of a single HAP or twenty-five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

##### **326 IAC 2-6 (Emission Reporting)**

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year

### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

### State Rule Applicability – Individual Facilities

#### 326 IAC 8-8-1 (Municipal Solid Waste Landfills)

This source is not subject to this rule because it is not located in Clark, Floyd, Lake, or Porter County.

#### 326 IAC 8-8.1-1 (Municipal Solid Waste Landfills not located in Clark, Floyd, Lake, or Porter County)

This source shall incorporate by reference the provisions of New Source Performance Standard for Municipal Solid Waste Landfills, 326 IAC 12, 40 CFR 60.750, Subpart WWW.

#### 326 IAC 10-4 (NO<sub>x</sub> Budget Trading Program)

The four (4) reciprocating internal combustion engines, identified as EG1 through EG4, are not subject to 326 IAC 10-4-1 because they are not an “Electricity Generating Unit” or “EGU” as defined in 326 IAC 10-4-2(16) and each is not a “large affected unit” as defined in 326 IAC 10-4-2(27). Each unit is not an EGU because it will not serve a generator that has a nameplate capacity greater than twenty-five (25) megawatts and produces electricity for sale under a firm contract to the electric grid. Each unit is not a large affected unit because it will not have a maximum design heat input greater than two hundred fifty million (250,000,000) British thermal units per hour.

#### 326 IAC 12-1 (New Source Performance Standards)

The municipal solid waste landfill will be required to comply with the New Source Performance Standard for Municipal Solid Waste Landfills, 326 IAC 12, (40 CFR 60.750, Subpart WWW) as described in the “Federal Rule Applicability” section of this TSD.

#### 326 IAC 14-2 (Emission Standards for Hazardous Air Pollutants)

The municipal solid waste landfill will be required to comply with the National Emission Standards for Hazardous Air Pollutants for Asbestos, 326 IAC 14-2-1, (40 CFR 61.154, Subpart M), as described in the “Federal Rule Applicability” section of this TSD, because the landfill accepts asbestos-containing waste material.

#### 326 IAC 20-67-1 (Municipal Solid Waste Landfills)

The municipal solid waste landfill will be required to comply with the National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills, 326 IAC 20-67-1, (40 CFR 60.1935, Subpart AAAA), as described in the “Federal Rule Applicability” section of this TSD,

because the municipal solid waste landfill began accepting waste since November 8, 1987.

### **State Rule Applicability – Insignificant Activities**

#### 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) The crankcase breather vent is not considered a manufacturing process. Therefore, the crankcase breather vent is not subject to the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).
- (b) The potential emissions from the temporary portable concrete and rock crushing operation, identified as Crusher, are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the description process is exempt from the requirements of 326 IAC 6-3.

#### 326 IAC 8-3-2 (Cold Cleaner Operations)

- (a) Pursuant to 326 IAC 8-3-2, for the cold cleaner operations, the Permittee shall:
  - (1) equip the cleaner with a cover;
  - (2) equip the cleaner with a facility for draining cleaned parts;
  - (3) close the degreaser cover whenever parts are not being handled in the cleaner;
  - (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) provide a permanent, conspicuous label summarizing the operating requirements;
  - (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (b) The insignificant cleaners and solvents are not considered cold cleaners because they do not have tanks. Pursuant to 326 IAC 1-2-18.5 cold cleaners have a tank containing organic solvent at a temperature below the boiling point of the solvent which is used to spray, brush, flush, or immerse an article for the purpose of cleaning or degreasing. Therefore the requirements of 326 IAC 8-3-2 are not subject and not included for the insignificant cleaners and solvents.

#### 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee of a cold cleaner degreaser facility construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kilopascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) The solvent is agitated; or
  - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for a cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
    - (1) Close the cover whenever articles are not being handled in the degreaser.
    - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
    - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

#### 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

The above ground storage tanks are not subject to 326 IAC 8-9 because they are not located in Clark, Floyd, Lake, or Porter County.

## Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The landfill has applicable compliance monitoring conditions as specified below:

The Permittee complying with 40 CFR 60.752 (b)(2)(i)(B) has applicable compliance monitoring conditions with regard to an active collection system as specified below:

The Permittee shall install a sampling port and a thermometer or other temperature measuring device at each wellhead; measure the gauge pressure in the gas collection header on a monthly basis; monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis; and monitor temperature of the landfill gas on a monthly basis.

These monitoring conditions are necessary because the active collection system must operate properly to ensure compliance with 40 CFR 60.750, Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills) and National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Municipal Solid Waste Landfills (40 CFR 63.1930, Subpart AAAA).

## Conclusion

The operation of this stationary municipal solid waste landfill shall be subject to the conditions of this Part 70 Operating Permit T 017-17740-00035.

**Appendix A: Emission Calculations  
Source Wide HAP Emissions**

**Company Name: Oak Ridge Recycling and Disposal Facility  
Address City IN Zip: R.R. #3 365B County Road 150 East, Logansport, IN 46947  
Permit Number: T 017-17740-00035  
Reviewer: Brian J. Pedersen  
Date: April 13, 2007**

Land fill Gas (LFG) Production Rating: 60100000 m<sup>3</sup>/year  
Collection Efficiency: 75% (AP-42, Chapter 2.4)  
Control Efficiency: 98% (required by NSPS)  
Land fill Gas (LFG) Production Rating (after collection efficiency): 15025000 m<sup>3</sup>/year

CAS Number	Compound	Concentration (ppmv)	Molecular Weight (mg/M <sup>3</sup> )	Gravitation Concentration	Fugitive HAP Emissions (tons/yr)	Captured HAP Emissions after Control Devices (tons/yr)	Total HAP Emissions (tons/yr)
71556	1,1,1-Trichloroethane (methyl chloroform)	0.009	133.42	0.05	0.0008	0.000049	0.0009
79345	1,1,2,2-Tetrachloroethane	0.008	167.86	0.05	0.001	0.000055	0.0010
75343	1,1-Dichloroethane (ethylidene dichloride)	0.359	98.96	1.45	0.024	0.001445	0.0255
75354	1,1-Dichloroethene (vinylidene chloride)	0.022	96.95	0.09	0.001	0.000087	0.0015
107062	1,2-Dichloroethane (ethylene dichloride)	0.02	98.96	0.08	0.001	0.000085	0.0015
78875	1,2-Dichloropropane (propylene dichloride)	0.002	112.99	0.01	0.000	0.000007	0.0001
75150	Carbon disulfide	0.100	76.14	0.31	0.005	0.000308	0.0054
56235	Carbon tetrachloride	0.011	153.84	0.07	0.001	0.000069	0.0012
108907	Chlorobenzene	0.320	112.56	1.47	0.024	0.001465	0.0259
75003	Chloroethane (ethyl chloride)	8.42	64.52	22.23	0.369	0.022110	0.3906
67663	Chloroform	0.365	119.39	1.78	0.030	0.001773	0.0313
75092	Dichloromethane (methylene chloride)	1.91	84.94	6.62	0.110	0.006582	0.1163
100414	Ethylbenzene	4.35	106.16	18.87	0.313	0.018769	0.3316
110543	Hexane	9.07	86.17	31.96	0.530	0.031783	0.5615
108101	Methyl isobutyl ketone	0.489	100.07	2.00	0.033	0.001991	0.0352
127184	Perchloroethylene (tetrachloroethene)	0.733	165.85	4.97	0.082	0.004945	0.0874
79016	Trichloroethylene	0.266	131.39	1.43	0.024	0.001422	0.0251
75014	Vinyl chloride	0.618	62.5	1.58	0.026	0.001571	0.0278
71432	Benzene	0.789	78.11	2.52	0.042	0.002507	0.0443
74873	Methyl chloride(Chloromethane)	0.395	50.49	0.82	0.014	0.000811	0.0143
108883	Toluene	15.4	92.13	58.14	0.964	0.057829	1.0216
1330207	Xylene (isomers and mixtures)	10.2	106.16	44.46	0.737	0.044222	0.7813
	Mercury Compounds *	0.060	200.61	0.49	0.008	0.000488	0.0086
Total HAPs:					3.34	0.200	3.54
Greatest Single HAP:					0.964	0.058	1.02

\*\*\*Per a court decision (National Mining Association, et al. V. United States Environmental Protection Agency, 1995 U.S. App. LEXIS 18104), it was interpreted that the determination of potential HAPs emissions from a facility could take into consideration the presence of controls, and that these controls did not have to be federally enforceable. Therefore, actual HAPs emissions and potential HAPs emissions from the landfill are assumed to be equivalent, since Oak Ridge RDF has a landfill gas control system.

**Appendix A: Emission Calculations**  
**Particulate Emissions due to Vehicle Traffic**

**Company Name:** Oak Ridge Recycling and Disposal Facility  
**Address City IN Zip:** R.R. #3 365B County Road 150 East, Logansport, IN 46947  
**Permit Number:** T 017-17740-00035  
**Reviewer:** Brian J. Pedersen  
**Date:** April 13, 2007

Vehicle Type	Vehicle Wt. Unloaded (ton)	Vehicle Wt. Loaded (ton)	Mean Vehicle Weight (tons)	Unpaved (lb./VMT)			Paved (lb./VMT)		
				E - PM2.5	E - PM10	E - TSP	E - PM2.5	E-PM10	E-PM
Transfer Trailer	23	41	32	0.40	2.71	13.21	0.32	1.29	6.61
Front End Loader	12	31	21	0.34	2.31	10.80	0.18	0.71	3.62
Rear End Loader	10	23	17	0.31	2.09	9.56	0.12	0.49	2.50
Roll-Off Container	12	23	17	0.31	2.13	9.77	0.13	0.52	2.68
Private Vehicle	2	3	3	0.14	0.98	3.71	0.01	0.03	0.15
Dump Truck	10	14	12	0.27	1.84	8.12	0.07	0.30	1.54

**Spreadsheet Inputs:**

s = surf. mat. silt content (unpave)                      6 % (from Table 13.2.2-1)  
sL=paved road surface silt load (                      7 g/m2 (Table 13.2.1-3)  
M = surface material moist. cont.                      0 % (default value)  
P = # of day/yr with precip. =                      120 days

Formulas for Emissions Factors:

Unpaved Road (from AP-42 Chapter 13.2.2, 9/98):

$$E \text{ PM10/TSP} = k * [s/12]^a * [W/3]^b / [M/0.2]^c * [(365 - p)/365]$$

Constant	PM2.5	PM10	TSP
k (lb/VMT)	0.38	2.60	10.00
a	0.8	0.80	0.80
b	0.4	0.40	0.50
c	0.3	0.30	0.40

Paved Road (from AP-42 Chapter 13.2.1, 10/97):

$$E \text{ PM10/TSP} = k * (sL/2)^{0.65} * (W/3)^{1.5}$$

Size range	k (lb/VMT)
PM2.5	0.004
PM10	0.016
PM	0.082

UPR = Total length of unpaved roads                      800 ft                      0.15 miles  
PR = Total length of paved roads                      1200 ft                      0.23 miles

Where:  
VMT = Vehicle mile traveled  
W = mean vehicle weight (tons)

**Appendix A: Emission Calculations  
Particulate Emissions due to Vehicle Traffic**

**Company Name: Oak Ridge Recycling and Disposal Facility  
Address City IN Zip: R.R. #3 365B County Road 150 East, Logansport, IN 46947  
Permit Number: T 017-17740-00035  
Reviewer: Brian J. Pedersen  
Date: April 13, 2007**

Vehicle Type	Trucks/ Yr	UPR (mile)	PR (mile)	Total Dust (lb/yr)											
				Unpaved (lb./VMT)			Paved (lb./VMT)			Unpaved (lb./VMT)			Paved (lb./VMT)		
				E - PM2.5	E - PM10	E - TSP	E - PM2.5	E-PM10	E-TSP	E - PM2.5	PM10	PM	E - PM2.5	PM10	PM
Transfer Trailer	2000	0.2	0.2	0.4	2.7	13.2	0.3	1.3	6.6	120	822	4002	147	586	3004
Front End Loader	1500	0.2	0.2	0.3	2.3	10.8	0.2	0.7	3.6	77	525	2455	60	241	1234
Rear End Loader	6000	0.2	0.2	0.3	2.1	9.6	0.1	0.5	2.5	278	1903	8688	167	666	3414
Roll-Off Container	16000	0.2	0.2	0.3	2.1	9.8	0.1	0.5	2.7	755	5166	23684	475	1898	9728
Private Vehicle	2000	0.2	0.2	0.1	1.0	3.7	0.0	0.0	0.1	43	297	1123	3	13	66
Dump Truck	11000	0.2	0.2	0.3	1.8	8.1	0.1	0.3	1.5	448	3063	13532	187	749	3839

TOTAL:            1721     11776     53483     1038     4153     21284

**Total potential dust emissions from roads (PM):     37.38 tpy**  
**PM-10 Emissions from roads =                             7.96 tpy**

**Controlled PM Emissions =                                 7.48 tpy**  
**Controlled PM-10 Emissions =                             1.59 tpy**

A control efficiency of 80% was assumed because the site uses a water truck to control dust emissions. (Per AP-42, fifth edition, Appendix B, Table B.2-3, Page B.2-21)

**Total Emission Summary**  
**Four (4) Reciprocating Engines and one (1) Flare firing Landfill Gas**

**Company Name:** Oak Ridge Recycling and Disposal Facility  
**Address City IN Zip:** R.R. #3 365B County Road 150 East, Logansport, IN 46947  
**Permit Number:** T 017-17740-00035  
**Reviewer:** Brian J. Pedersen  
**Date:** April 13, 2007

Total Fuel Input MMBtu/hr	NMOC ppmv	Flow Rate scfm	
8.9	500	1,200	For the four (4) reciprocating engines
52.3	500	1,800	For the one (1) flare

	Pollutant					
	PM*	PM10*	SO2	NOx	NMOC	CO
Emission Factors for reciprocating engines	48	48	190	250	500	470
Emission Factors for the one (1) flare	17	17	49.6	40	500	370
Potential Emission in tons/yr for the reciprocating engines	7.57	7.57	0.202	39.4	0.020	74.1
Potential Emission in tons/yr for the one (1) flare	4.02	4.02	0.0791	9.46	0.009	87.5

**Methodology**

PTE of PM/PM10/NOx/CO Emissions (tons/year) = Total Flow Rate (scfm landfill gas) / 10<sup>6</sup> \* Emission Factor (lb/10<sup>6</sup> dscf) \* 0.5 (concentration Methane in landfill gas \* 60 (min/hr) \* 8760 \* 0.0005 (ton/lb)

PTE of SO2 Emissions (tons/yr) = Flow Rate (scfm) \* Emission Factor (ppmv) / 10<sup>6</sup> \* 1 atm / Gas Constant (0.7302 atm-cf/lb more- R) / Temp (60F + 460) \* Mole Weight of SO2 ( 64 lbs/lbs mole) \* 60 min/hr \* 8760 hr/yr \* 1 ton/2000 lbs

PTE of NMOC Emissions (tons/yr) = Flow Rate (scfm) \* Emission Factor (ppmv) / 10<sup>6</sup> \* 1 atm / Gas Constant (0.7302 atm-cf/lb more- R) / Temp (60F + 460) \* Mole Weight of Hexane ( 86 lbs/lbs mole) \* 60 min/hr \* 8760 hr/yr \* 1 ton/2000 lbs \* (1-assumed destruction from flare or IC engine obtained from AP-42 Section 2.4)

Emission Factors are from AP-42 Chapter 2.4 - Municipal Solid Waste Landfills - Table 2.4-5 and Table 13.5-1 Industrial Flares

The total inlet concentration of Sulfur content compounds in AP-42, Chapter 2.4

The NMOC concentration is from site specific test data

**Appendix A: Emissions Calculations  
Insignificant Degreasing Operations**

**Company Name:** Oak Ridge Recycling and Disposal Facility  
**Address City IN Zip:** R.R. #3 365B County Road 150 East, Logansport, IN 46947  
**Permit Number:** T 017-17740-00035  
**Reviewer:** Brian J. Pedersen  
**Date:** April 3, 2007

**One Insignificant (1) Parts Washer**

Material	Maximum Consumption (gallons/day)	Material Density (lbs/gal)	Maximum Consumption (lbs/day)	Weight % VOC	VOC Emissions (tons/yr)
<b>Degreasing (W-1, W-2)</b>					
Safety Kleen Solvent	0.300	6.800	2.040	100%	0.372

Total State Potential Emissions

<b>TOTALS:</b>	<b>0.372</b>
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**METHODOLOGY**

VOCs emission rate (tons/yr) = Material Usage (lbs/day) \* Weight % VOC 365 day/yr \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Internal Combustion Engines - Diesel Fuel**

**Company Name: Oak Ridge Recycling and Disposal Facility  
Address City IN Zip: R.R. #3 365B County Road 150 East, Logansport, IN 46947  
Permit Number: T 017-17740-00035  
Reviewer: Brian J. Pedersen  
Date: April 3, 2007**

Three (3) diesel-fired pump engines rated at 25 horsepower, each.  
Two (2) diesel-fired welder engines, rated at 7.5 horsepower, each.  
Two (2) diesel-fired air compressor engines rated at 7.5 horsepower, each.  
One (1) diesel-fired tipper engine, rated at 116 horsepower

**Emissions calculated based on output rating (hp)**

Output Rating Horsepower (hp)	Potential Throughput hp-hr/yr	Heat Input Capacity MM Btu/hr
221.0	1935960.0	1.55

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
0.0022	0.0022	0.0021	0.0310	0.0025	0.0067	
Potential Emission in tons/yr	2.13	2.13	1.98	30.0	2.43	6.47

HAP	Emission Factor Diesel Engines (lb/MMBtu)	Potential to Emit (tons/yr)
Benzene	0.0009	0.006
Toluene	0.0004	0.003
Xylenes	0.0003	0.002
Propylene	0.0026	0.018
1,3-Butadiene	0.0000	0.000
Formaldehyde	0.0012	0.008
Acetaldehyde	0.0008	0.005
Acrolein	0.0001	0.001
Total PAH	0.0002	0.001
<b>Total HAPs:</b>	<b>0.0065</b>	<b>0.044</b>

**Methodology**

Potential Throughput (hp-hr/yr) = hp \* 8760 hr/yr

Use a conversion factor of 7,000 Btu per hp-hr to convert from horsepower to Btu/hr, unless the source gives you a source-specific brake-specific fuel consumption. (AP-42, Footnote a, Table 3.3-1)

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] \* 8760 hr/yr / (2,000 lb/ton )

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

\*PM emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Appendix A: Emission Calculations  
LPG-Propane - Space Heaters**

**Company Name: Oak Ridge Recycling and Disposal Facility  
Address City IN Zip: R.R. #3 365B County Road 150 East, Logansport, IN 46947  
Permit Number: T 017-17740-00035  
Reviewer: Brian J. Pedersen  
Date: April 3, 2007**

Two (2) propane-fired space heaters, rated at 0.300 million British thermal units per hour, total.

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	SO2 Emission factor = 0.10 x S S = Sulfur Content =	<input type="text" value="0.05"/> grains/100ft <sup>3</sup>
<input type="text" value="0.300"/>	<input type="text" value="28.72"/>		

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC **TOC value	CO
Potential Emission in tons/yr	0.009	0.009	0.000	0.273	0.007	0.046

\*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

\*\*The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

**Methodology**

1 gallon of LPG has a heating value of 94,000 Btu

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton

