



Environmental Protection Agency

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

3/18/2011

Certified Mail

Mr. Rod Deeds
Tunnell Hill Reclamation, LLC
2500 Township Road 205 (Tunnel Hill Rd)
Route 2
New Lexington, OH 43764

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0664000116
Permit Number: P0105843
Permit Type: OAC Chapter 3745-31 Modification
County: Perry

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Perry County Tribune. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

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

and Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501.

Sincerely,

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

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-SEDO; West Virginia

PUBLIC NOTICE PUBLIC HEARING
Tunnell Hill Reclamation

Facility Location: 2500 Township Road 205
Route 2
New Lexington, OH 43764
Facility Description: Solid Waste Landfill
Issue Date: March 18, 2011

Scott Nally, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued the following three draft permit actions. An information session and public hearing on these permits is scheduled for Wednesday, May 11, 2011 at 6:00PM at the New Lexington Community Building, 600 Senior Center Drive, New Lexington, Ohio 43764. A presiding officer will be present and may limit oral testimony to ensure all parties are heard. Written comments must be received by May 18, 2011. Comments received after this date will not be considered. Please mail comments on this project to: Attn: Kimberly Reese, Systems Management Unit, Ohio EPA, DSIWM, 50 W. Town Street, Suite 700, PO Box 1049, Columbus, OH 43215-1049

1. Air Pollution Control Permit-to-Install (PTI): a draft action PTI (P0107566) for an air contaminant source at the Tunnell Hill Reclamation, LLC location identified above. Installation of the air contaminant source may proceed upon final issuance of the PTI. The permit is being issued to increase potential to emit (PTE) emissions for F001, F003, P901 because of landfill expansion and an increase in the AMDWR to 8,000 tons/day. The permit also includes an increased PTE for F004 (Piles for LF cover). The air pollution control permit can be downloaded from the Web page: www.epa.ohio.gov/dapc
2. Division of Surface Water draft modification of NPDES permit (0IN00251) for Tunnel Hill Reclamation LLC to revise the description of permitted outfall or effluent sampling/monitoring location for outfalls 0IN00251001 and 0IN00251002 for discharges from the expanded solid waste landfill. The discharges, if approved, would result in degradation to, or lowering of, the water quality of Rush Creek, which is categorized as a Limited Quality Water. A review of the application indicates that an exclusion applies to the proposed project. OAC 3745-1-05(D)(1)(a) allows for reduced review and application criteria for projects discharging to Limited Quality Waters due to limited potential for impact to receiving stream environment.
3. Solid and Infectious Waste PTI: If issued as a final permit, the PTI (06-08443) authorizes the lateral expansion of the approved limits of waste placement and increases the authorized maximum daily waste receipt (AMDWR) from 5,000 tons to 8,000 tons at the Tunnell Hill Reclamation facility (272650).



DRAFT

**Division of Air Pollution Control
Permit-to-Install
for
Tunnell Hill Reclamation, LLC**

Facility ID:	0664000116
Permit Number:	P0105843
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	3/18/2011
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
Tunnell Hill Reclamation, LLC

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Authorization

Facility ID: 0664000116
Facility Description: Refuse system.
Application Number(s): A0038820, A0040114, A0040788
Permit Number: P0105843
Permit Description: Chapter 31 Modification to increase PTE emissions for F001, F003, P901 because of landfill expansion and an increase in the AMDWR to 8,000 tons/day.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,850.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 3/18/2011
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

Tunnell Hill Reclamation, LLC
2500 Township Road 205 (Tunnell Hill Rd)
Route 2
New Lexington, OH 43764

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

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

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director



Authorization (continued)

Permit Number: P0105843
Permit Description: Chapter 31 Modification to increase PTE emissions for F001, F003, P901 because of landfill expansion and an increase in the AMDWR to 8,000 tons/day.

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

Emissions Unit ID:	F001
Company Equipment ID:	Roadways and Parking
Superseded Permit Number:	06-08281
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F003
Company Equipment ID:	Railcar & Truck
Superseded Permit Number:	06-07903
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F004
Company Equipment ID:	Piles for LF Cover
Superseded Permit Number:	06-07903
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P901
Company Equipment ID:	MSW Landfill Ops
Superseded Permit Number:	06-07903
General Permit Category and Type:	Not Applicable



A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

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

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Southeast District Office.
 - (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations,

excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Southeast District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.

- (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Southeast District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Southeast District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:



- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Southeast District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. Air Pollution Nuisance

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

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Southeast District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Southeast District Office. If no deviations occurred during a calendar quarter, the permittee

shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All



records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

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

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

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

B. Facility-Wide Terms and Conditions

Effective Date: To be entered upon final issuance

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following emissions unit contained in the permit is subject to 40 CFR Part 63 Subpart AAAA: P901, The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA Southeast District Office.
3. The following emissions unit contained in the permit is subject to 40 CFR Part 60 Subpart WWW: P901, The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA Southeast District Office.

C. Emissions Unit Terms and Conditions



1. F001, Roadways and Parking

Operations, Property and/or Equipment Description:

Plant unpaved roadways and parking areas with a maximum of 713,522 vehicle miles traveled. This permit is a Chapter 31 Modification of PTI 06- 08281 issued on 08/21/07.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	No visible PE except for 3 minutes during any 60-minute period; and
b.	OAC rule 3745-17-07(B)(5)	Exempt. See Section b)(2)a.
c.	OAC rule 3745-17-08(B)	Exempt. See Section b)(2)a.

(2) Additional Terms and Conditions

a. Since this emissions unit is not located in an area identified in Appendix A of OAC rule 3745-17-08, the requirements of OAC rules 3745-17-07(B)(5) and 3745-17-08(B) do not apply to this emissions unit.

b. If control measures for the minimization of the deposit of mud or dust on public roads are insufficient to achieve compliance with applicable emission limitations and/or control requirements, Ohio EPA may require the permittee to submit to SEDO an approvable plan and schedule for the design, installation, maintenance, and operation of a wheel and undercarriage washing station that shall be used by all vehicles leaving the facility. The design shall include adequate onsite travel distance on well-maintained surfaces to allow the vehicles to properly "throw off" any excess water the truck wheels may hold to eliminate the potential of causing water slicks, ice, etc. from forming on any public thoroughfares.



Effective Date: To be entered upon final issuance

- c. Any unpaved area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any sixty minute observation period.
- d. The air contaminants emitted by this emissions unit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

c) Operational Restrictions

- (1) None

d) Monitoring and/or Recordkeeping Requirements

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

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
Road Segment A	daily
Road Segment B	daily
Road Segment C	daily
Road Segment D	daily
Road Segment E	daily
Working Face Area	daily

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

- (4) The information required in b)(3)d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
 - i. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - ii. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (2) These deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

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

- a. Emission Limitation:
No visible PE except for 3 minutes during any 60-minute period.

Applicable Compliance Method:

Compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

- (1) None.



2. F003, Railcar & Truck

Operations, Property and/or Equipment Description:

Railcar unloading and transfer truck loading. This permit is a Chapter 31 Modification of PTI 06-07903 issued on 8/8/2006

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) as effective 11/30/01	Fugitive particulate emissions (PE) shall not exceed 1.8 tons per year Fugitive PM-10 particulate emissions (PE) shall not exceed 0.9 tons per year. There shall be no visible PE from the enclosure.
b.	OAC 3745-31-05(A)(3)(a)(ii)	See Section b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Exempt, See Section b)(2)h.
d.	OAC rule 3745-17-08(B)	Exempt, See Section b)(2)h.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B.265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

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

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

- c. The material handling operations that are covered by this permit and are subject to the requirements of OAC rule 3745-31-05 are listed below:
- i. Material unloading from railcars
 - ii. Material loading into truck or bucket elevator
- d. All of the material handling operations identified in term b)(2)a. above shall be contained within a permanent enclosure. Two ends of the enclosure may have open doorways that are large enough for rail cars and trucks to enter and exit the enclosure. The enclosure shall be designed, built, and operated so that the escape of fugitive dust from the enclosure is eliminated to ensure the above visible emissions limitation is met.
- e. The permittee shall install, operate and maintain water sprays to minimize the fugitive dust generated from the material handling operations and to meet the above visible emissions limitation. Any loads which appear to contain dusty materials shall be watered prior to unloading.
- f. During the handling of any load of dusty material in which the material becomes airborne, the material shall be watered as necessary to eliminate visible particulate emissions of fugitive dust.
- g. The permittee shall ensure that the unloading of materials from the rail cars and the loading of materials into trucks shall be done in a manner that will minimize the drop height of the materials.
- h. Since this emissions unit is not located in an area identified in Appendix A of OAC rule 3745-17-08, the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B) do not apply to this emissions unit.
- i. The following asbestos requirements are to be met:
- i. the facility shall not accept for disposal any National Emission Standards for Hazardous Air Pollutants (NESHAP) regulated asbestos containing material (RACM) as defined in the NESHAP Regulation for Asbestos, 40 CFR Part 61, Subpart M, Section 141 amended November 20, 1990 or any subsequent revisions or as defined in any Environmental Protection Agency Interpretive Rules concerning the NESHAP Regulation for Asbestos. This includes: (a) friable asbestos material, (b) Category I nonfriable asbestos containing material that has become friable, (c) Category I nonfriable asbestos containing material that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable asbestos containing material that has a high probability of



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becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart;

- ii. this facility shall ensure that any asbestos containing materials shall not become friable while at the landfill. If any asbestos material arrives at or becomes friable at the landfill, this facility shall adequately wet or encapsulate it if necessary to prevent visible emissions, and shall cover it with at least six (6) inches of non-asbestos containing material before the end of the operating day; and
- iii. all terms stated in this term are defined in the NESHAP regulation for Asbestos, 40 CFR Part 61, Subpart M, Section 141 amended November 20, 1990 or any subsequent revisions or in any Environmental Protection Agency Interpretive ruling concerning the NESHAP for Asbestos.

c) Operational Restrictions

- (1) None

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- (2) The permittee shall maintain monthly records of the amount of materials transferred, in tons.

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month periods.
- (2) The permittee shall submit deviation (excursion) reports identifying any exceedance of the material throughput restriction specified in c)(1). The notification shall be sent to the Ohio EPA, Southeast District Office within 30 days after the exceedance occurs.



f) Testing Requirements

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

a. Emission Limitation:
Fugitive PE shall not exceed 1.8 tons per year

Applicable Compliance Method:
Compliance shall be demonstrated by the following one-time calculation based on the emission factors in AP-42 sections 13.2.4 (1/95) and 11.19.2 (8/04) and the maximum annual throughput of 2,92,000,000 tons:

$$PE = EF (\text{Number of Transfer Points}) * \text{Tons Throughput per Year} / 2,000\text{lbs/ton} \\ = 1.8 \text{ TPY}$$

b. Emission Limitation:
Fugitive PM-10 shall not exceed 0.9 tons per year

Applicable Compliance Method:
Compliance shall be demonstrated by the following one-time calculation based on the emission factors in AP-42 sections 13.2.4 (1/95) and 11.19.2 (8/04) and the maximum annual throughput of , 2,920,000,000 tons:

$$PE = EF (\text{Number of Transfer Points}) * \text{Tons Throughput per Year} / 2,000\text{lbs/ton} \\ = 0.9 \text{ TPY}$$

c. Emission Limitation:
There shall be no visible PE from the enclosure.

Applicable Compliance Method:

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

(1) None.



3. F004, Piles for LF Cover

Operations, Property and/or Equipment Description:

Landfill cover material storage piles. This is a Chapter 31 Modification of PTI 06-07903 issued on 8/8/2006.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) as effective 11/30/01	Fugitive particulate emissions (PE) shall not exceed 5.0 tons per year.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	See Section b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Exempt See Section b)(2)h.
d.	OAC rule 3745-17-08(B)	Exempt, See Section b)(2)h.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B.265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

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

Effective Date: To be entered upon final issuance

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

- c. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment frequencies to ensure compliance.
- d. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- e. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform one or more of the following: (chemical stabilization, watering/sprinkling systems/hoses, covering the storage piles) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- g. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).
- h. Since this emissions unit is not located in an area identified in Appendix A of OAC rule 3745-17-08, the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B) do not apply to this emissions unit.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all	daily

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>minimum load-out inspection frequency</u>
all	daily

- (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>Storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
all	daily

- (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

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

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

- (7) The information required in d)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be



updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (2) These deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section A.I.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emissions Limitation:

Fugitive PE shall not exceed 5.0 ton per year.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for drop operations associated with storage piles in AP-42 section 13.2.4 (11/06).

Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF = emission factor expressed in pounds per ton (lbs/ton)

k = particle size multiplier for TSP (dimensionless) = 0.74

U = mean wind speed expressed in miles per hour (MPH) = 11

M = material moisture content (%) = 4.0

Therefore, EF = 0.002501 lbs/ton



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maximum annual load-in throughput = 325,371 tons/year

maximum annual load-out throughput = 325,371 tons/year

$[(1 \text{ load-in})(325,371 \text{ tons/year}) (0.002501 \text{ lb PE/ton}) + (1 \text{ load-outs})(325,371 \text{ tons/year})(0.002501 \text{ lb PE/ton})] / 2,000 \text{lb/ton}$

= 0.814 TPY of uncontrolled PE

Assume 95% control for watering (RACM)

$(0.814 \text{ TPY}) (.05) = 0.041 \text{TPY}$ of controlled PE and;

the emission factor calculation for wind erosion from storage piles found in USEPA's Control of Open Fugitive Dust Sources (9/88). Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = (1.7) (s/1.5) ((365-p)/235) (f/15)$$

Where:

E= emission factor in pounds (lbs)/day/acre

s = silt content of stored material (%) = 10%

p= number of rain days per year >0.01 in. = 140

f = percentage of time that wind speed exceeds 11 mph (%) = 30

A= total surface area of storage piles (acres) = 12

Therefore, $EF = 21.702 \text{ lbs/day/acre}$

$$[(21.702 \text{ lbs/day/acre})(365 \text{ days/yr})(12 \text{ acre})] / 2000 \text{ lbs/ton} = 47.53 \text{ TPY}$$

uncontrolled PE

Assume 90% control for watering and good operating practices (engineering RACM)

$(47.53 \text{ TPY}) (0.10) = 4.73 \text{ TPY}$ controlled PE

b. Emission Limitation:

No visible PE except for one minute in any 60-minute period.



Applicable Compliance Method:

Upon request by the Ohio EPA Southeast District Office, compliance with the visible PE limitation for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

g) Miscellaneous Requirements

- (1) None.



4. P901, MSW Landfill Ops

Operations, Property and/or Equipment Description:

Municipal Solid Waste (MSW) Landfill refuse disposal activities including dumping, spreading, compacting, covering and gas generation. This PTI is a Chapter 31 modification of PTI 06-07903 issued on 8/8/2006 and is based on an increase in AMDWR to 8,000 tons per day

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

(1) e) (2) and g)(1)

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	<p>Prior to installing the 4550 standard cubic feet per minute (scfm) control device, emissions from the landfill shall be limited as follows:</p> <p>Fugitive (non-stack) emissions shall not exceed the following:</p> <p>No visible PE except for 3 minutes during any 60-minute period;</p> <p>See b)(2)a.</p> <p>Non-methane organic (NMOC) emissions shall not exceed 75.20 tons/yr per rolling 12 month period.</p> <p>Methane (CH4) emissions shall not exceed 11,740 tons per rolling 12 month period</p> <p>Volatile organic compounds (VOC) emissions shall not exceed 29.29 tons per rolling 12 month period.</p> <p>Total hazardous air pollutants (HAP) shall not exceed 14.63 tons per rolling 12 month period.</p> <p>Individual HAP (toluene) emissions shall not exceed 5.22 tons per rolling 12 month</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>period.</p> <p>The emissions limitations specified by this rule are established pursuant to 40 CFR Part 63, Subpart AAAA and 40 CFR Part 60 Subpart WWW.</p> <p>After the facility installs the 4550 standard cubic feet per minute (scfm) control device, the control device (stack) emission limitations for landfill gas shall not exceed the following:</p> <p>PM10 emissions shall not exceed 10.16 tons per rolling 12 month period.</p> <p>Note: All particulate emissions from the control device are PM10.</p> <p>CO emissions shall not exceed 201.36 tons per rolling 12 month period.</p> <p>NOx emissions shall not exceed 36.97 tons per rolling 12 month period.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subparts AAAA and A and 40 CFR Part 60, Subpart WWW.</p>
b.	<p>OAC Rule 3745-31-05(A)(3) as effective 11/30/01</p>	<p>After the facility installs the 4550 standard cubic feet per minute (scfm) control device, the control device (stack) emission limitations for landfill gas shall not exceed the following:</p> <p>VOC emissions shall not exceed 0.29 lb/hr and 1.26 tons per year.</p> <p>NMOC emission shall not exceed 0.74 lb/hr and 3.23 tons per year.</p> <p>SO2 emissions shall not exceed 2.16 lb/hr and 9.46 tons per year.</p> <p>See b)(2)g. and h.</p>
c.	<p>40 CFR Part 63, Subpart AAAA (40 CFR Parts 63.1930-1990</p> <p>[In accordance with 40 CFR Part 63.1935, this emissions unit is an</p>	<p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart WWW.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	existing municipal solid waste landfill with a design capacity greater than 2.5 million Mg and a NMOC emission rate of greater than 50 Mg/yr.	
d.	<p>40 CFR Part 60, Subpart WWW (40 CFR Parts 60.750-759)</p> <p>[In accordance with 40 CFR Part 60.752 this emissions unit is an existing municipal solid waste landfill having a design capacity greater than 2.5 million Mg and a NMOC emission rate of greater than 50 Mg/yr, and is subject to the emissions limitations/control measures specified in this section.]</p>	<p>The permittee shall install a control system in accordance with 40 CFR Part 60.754(b)(2) that complies with 40 CFR Part 60.752(b)(2)(iii) (A) (<i>open flare</i>), (B) (<i>control system</i>) or (C) (<i>treatment system</i>).</p> <p>(<i>open flare</i>) Visible emissions from any open flare shall not exceed a total of 5 minutes during any 2 consecutive hours.</p> <p>The open flare shall be designed and operated in accordance with 40 CFR 60.18; or</p> <p>(<i>control system</i>) The control system shall be designed and operated to reduce NMOC by 98%, by weight; or, if the control is an enclosed combustion device, shall either reduce the NMOC by 98%, by weight or reduce the outlet NMOC concentration to less than 20 ppm by volume, on a dry basis as hexane at 3% oxygen.</p> <p>Visible emissions from the stack serving any control device other than an open flare shall not exceed 10% opacity as a six-minute average; or</p> <p>(<i>treatment system</i>) The permittee shall route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 40 CFR Part 60.752(b)(2)(iii)(A) (<i>open flare</i>) or (B) (<i>control system</i>).</p>
e.	40 CFR Part 63. 1-15 (63.1955(b))	Table 1 to Subpart AAAA of Part 63-Applicability of NESHAP General Provisions to Subpart AAAA shows which parts of the General Provisions in 40 CFR



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		63.1-15 apply.
f.	40 CFR Parts 60.1-60.19	The permittee shall comply with all applicable requirements of the General Provisions found in 40 CFR Part 60, Subpart A.
g.	OAC rule 3745-17-07(B)	Exempt, See b)(2)b.
h.	OAC rule 3745-17-08(B)	Exempt, See b)(2)b.

(2) Additional Terms and Conditions

- a. The landfill fugitive dust operations/sources that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
 - i. waste dumping/unloading;
 - ii. waste compaction;
 - iii. soil excavation and handling;
 - iv. covering of waste with soil and
 - v. wind erosion from landfill surfaces; and
- b. Since this emissions unit is not located in an area identified in Appendix A of OAC rule 3745-17-08, the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B) do not apply to this emissions unit.
- c. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.
- d. Deposition and burial operations of any suspected non-regulated asbestos containing waste or demolition debris shall be conducted in a manner that prevents any asbestos content from being broken up or dispersed before such material are buried.
- e. The facility cannot accept for disposal any regulated asbestos-containing material as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61, Subpart M, Section 141 and OAC rule 3745-20, or any subsequent revisions to either rule. Regulated asbestos-containing material is defined to include:

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- i. friable asbestos material;
- ii. Category I nonfriable asbestos-containing material that has become friable;
- iii. Category I nonfriable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting, or abrading; or
- iv. Category II nonfriable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

The permittee shall be limited to accepting only non-regulated asbestos-containing waste materials. The permittee shall ensure that any Category I nonfriable asbestos-containing waste materials accepted for disposal will not be subjected to sanding, grinding, cutting, or abrading and shall not become friable during processing at the landfill; and shall ensure that Category II nonfriable asbestos-containing waste materials accepted for disposal do not become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during its handling, transfer, and burial at the landfill. Any nonfriable Category I or Category II asbestos-containing material that was generated from a NESHAP source and which becomes friable, also becomes subject to the Asbestos NESHAP regulations. If any regulated asbestos-containing waste material arrives at the landfill it cannot be accepted for disposal; and if any non-regulated asbestos-containing material becomes friable after it is accepted for disposal the permittee shall:

- v. cause or permit no visible emissions to the outside air from the asbestos-containing waste materials during on-site transportation, transfer, deposition, or compacting operations;
- vi. assure that deposition and burial operations are conducted in a manner which prevents handling by equipment or persons that causes asbestos-containing waste materials to be broken-up or dispersed before the materials are buried;
- vii. cover the asbestos-containing waste material with at least twelve inches of nonasbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
- viii. assure that during the unloading, deposition, burial and initial compaction of asbestos-containing waste materials, the disposal site is restricted adequately to deter unauthorized entry of the general public and any unauthorized personnel to within one hundred feet of the operations.

- f. All terms stated in Additional Special Terms and Conditions Sections b)(2)d through b)(2)e are defined as in 40 CFR 61.141 amended November 20, 1990 or any subsequent revision.
- g. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B.265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.
- h. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The Best Available Technology requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions VOC, NMOC, and SO₂ from this air contaminant source since the uncontrolled potential to emit for VOC, NMOC and SO₂ is less than ten tons per year.

c) Operational Restrictions

- (1) See 40 CFR Part 60, Subpart WWW (40 CFR Parts 60.750-759)
- (2) See 40 CFR Part 63, Subpart AAAA (40 CFR Parts 63.1930-1990)
- (3) The permittee shall cover and compact non-regulated asbestos containing waste materials in accordance with the following requirements:
 - a. As soon as practical after the placement of non-regulated asbestos containing waste materials, but no later than the end of each working day, the non-regulated asbestos containing waste/demolition material deposited at the site during the operating day shall be covered with at least 12 inches of non-asbestos-containing materials. Once the non-regulated asbestos containing waste/demolition materials are covered, the area shall be compacted.
 - b. Care shall be taken to ensure that non-regulated asbestos containing waste materials shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of this permit.
 - c. Non-regulated asbestos containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials or by at least six inches of compacted non-asbestos-containing materials with a permanent cover of vegetation over the



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area, or in accordance with current requirements for closure, whichever is more stringent.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall keep for at least five years up-to-date, readily accessible, on-site records of the maximum design capacity, 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 hours. Either paper or electronic formats are acceptable.

(2) Except as otherwise provided in this section, the permittee shall perform inspections of the landfill fugitive dust operations/sources in accordance with the following frequencies:

<u>landfill fugitive dust operations/sources</u>	<u>minimum inspection frequency</u>
Waste dumping/unloading	once during each day of operation
Waste compaction	once during each day of operation
Soil excavation and handling	once during each day of operation
Covering of waste with soil	once during each day of operation
Wind erosion from landfill surfaces	once during each day of operation

(3) The purpose of the inspections is to determine the need for implementing the abovementioned control measures for particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill fugitive dust operation/source that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next inspection is within one week. Check with Christina on this.

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

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information in Section d)(3) above shall be kept separately for each landfill fugitive dust operation/source identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) See 40 CFR Part 60, Subpart WWW (40 CFR Parts 60.750-759)
- (6) See 40 CFR Part 63, Subpart AAAA (40 CFR Parts 63.1930-1990)
- (7) The permittee shall maintain a daily operations log which records/documents any watering activity employed to minimize or eliminate visible emissions of fugitive dust for each waste dumping/placement area; the record shall include the time, the location, and the amount of water employed, in gallons.

e) Reporting Requirements

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

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

- (2) Should any changes be made to a parameter or value used to demonstrate compliance with the predicted 1-hour maximum ground level concentration (MAGLC) or the Toxic Air Contaminant Statute, ORC 3704.03(F), the facility shall document the changes and submit them to the Ohio EPA Southeast District Office no later than January 31 of the following calendar year.

f) Testing Requirements

- (1) Compliance with the fugitive emission limitations in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitation:

Emissions unit P901 shall not exceed fugitive NMOC emissions of 75.20 tons per rolling 12 month period.

Applicable Compliance Method:

The permittee shall demonstrate compliance through calculations using the Landfill Gas Emissions Model (LandGEM) version 3.02 for a maximum landfill capacity of 26,455,227 Mg of compacted waste and AP-42 emission factors from Section 2.4, Municipal Solid Waste Landfills.

b. Emission Limitation:

Emissions unit P901 shall not exceed fugitive CH₄ emissions of 11,740 tons per rolling 12 month period.

Applicable Compliance Method:

The permittee shall demonstrate compliance through calculations using the LandGEM version 3.02 for a maximum landfill capacity of 26,455,227Mg of compacted waste and AP-42 emission factors from Section 2.4, Municipal Solid Waste Landfills.

c. Emission Limitation:

Emissions unit P901 shall not exceed fugitive VOC emissions of 29.29 tons per rolling 12 month period.

Applicable Compliance Method:

The permittee shall demonstrate compliance through calculations using the LandGEM version 3.02 for a maximum landfill capacity of 26,455,277 Mg of compacted waste and AP-42 emission factors from Section 2.4, Municipal Solid Waste Landfills.

d. Emission Limitation:

Emissions unit P901 shall not exceed fugitive HAP emissions of 14.63 tons per rolling 12 month period. Individual fugitive HAP (toluene) shall not exceed 5.22 tons per rolling 12 month period.

Applicable Compliance Method:

The permittee shall demonstrate compliance through calculations using the LandGEM version 3.02 for a maximum landfill capacity of 26,455,277 Mg of compacted waste and AP-42 emission factors from Section 2.4, Municipal Solid Waste Landfills.

f. Emission Limitation:

There shall be no visible PE except for 3 minutes during any 60 min period.

Applicable Compliance Method:

Compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

- (2) Compliance with the control device emission limitations in Section b)(1) shall be determined in accordance with the following methods:

a. Emission Limitations:

Control device PM10 emissions shall not exceed 10.16 tons per year.

Applicable Compliance Methods:

Initial compliance with the above emission limitation may be determined by multiplying the (maximum landfill gas generation rate of 9,934 dscfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (17 lbs of PM/1,000,000 dscf methane*) x (60 minutes/hour) = 2.32 lbs/hr.

*AP-42, Section 2.4, Municipal Solid Waste Landfills [11/98] (all PM is assumed to be PM₁₀).

Compliance with the emission limitation shall be determined by multiplying the (maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in dscfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (17 lbs of PM/1,000,000 dscf methane*) x (60 minutes/hour) = result in lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 201/202 of 40 CFR Part 60, Appendix A.

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

b. Emission Limitations:

Control device CO emissions shall not exceed 201.36 tons per rolling 12 month period.

Applicable Compliance Methods:

Initial compliance with the above emission limitation has been determined by multiplying the (maximum landfill gas generation rate of 4,550 scfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (909.8 Btu/cubic ft of methane) x (0.37 lbs of CO/1,000,000 Btu*) x (60 minutes/hour) = 45.95 lbs/hr.

*This value has been established based upon a manufacturer's performance guarantee.

Compliance with the emission limitation shall be determined by multiplying the (maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in scfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (909.8 Btu/cubic ft of methane) x (emissions factor of control equipment or the most recent value determined by stack testing in lbs of CO/1,000,000 Btu) x (60 minutes/hour) = result in lbs/hr.

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If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

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

c. Emission Limitations:

Control device NO_x emissions shall not exceed 36.97 tons per rolling 12 month period.

Applicable Compliance Methods:

Initial compliance with the above emission limitation has been determined by multiplying the (maximum landfill gas generation rate of 4,550 scfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (909.8 Btu/cubic ft of methane) x (0.068 lb of NO_x/1,000,000 Btu*) x (60 minutes/hour) = 8.44 lbs/hr.

*This value has been established based upon a manufacturer's performance guarantee.

Compliance with the emission limitation shall be determined by multiplying the (maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in scfm) x (0.50 cubic ft methane/cubic ft of landfill gas) x (909.8 Btu/cubic ft of methane) x (emissions factor of control equipment or the most recent value determined by stack testing in lbs of NO_x/1,000,000 Btu) x (60 minutes/hour) = result in lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 7E of 40 CFR Part 60, Appendix A.

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

d. Emission Limitations:

Control device SO₂ emissions shall not exceed 2.16 pounds per hour and 9.46 tons per year.

Applicable Compliance Methods:

Initial compliance with the above hourly emission limitation shall be determined by using AP-42, Municipal Solid Waste Landfills [11/98] and the following equation:

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((the maximum landfill gas generation rate of 4,550 scfm) x (46.9 *ppmv/1,000,000 MMscf/scf)) x (64.066 molecular weight of SO₂)/(0.7302 universal gas constant* x 520 Temp) x 60 min/hr = 2.16 lbs/hr.

*Sulfur concentration in the exhaust gas from AP-42 = 46.9 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for SO₂).

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

((maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in scfm) x (46.9 *ppmv/1,000,000 MMscf/scf)) x (64.066 molecular weight of SO₂)/(0.7302 universal gas constant* x 520 Temp) x 60 min/hr = result in lbs/hr.

*Sulfur concentration in the exhaust gas from AP-42 = 46.9 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for SO₂).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

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

e. Emission Limitations:

Control device NMOC emissions shall not exceed 0.74 pound per hour and 3.23 tons per year.

Applicable Compliance Methods:

Initial compliance with the above hourly emission limitation may be determined by using AP-42, Municipal Solid Waste Landfills [11/98] and the following equation:

((the maximum landfill gas generation rate of 4,550 scfm) x (595 *ppmv/1,000,000 MMscf/scf) x (86.18 molecular weight of NMOC {as hexane}))/((0.7302 universal gas constant x 520 Temp)) x (60 min/hr) x (1-0.98 control efficiency of the control device(s)) = 0.74 lb/hr.

*Default NMOC concentration in inlet gas from AP-42 = 595 ppmv.

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

((the maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in scfm) x (595 *ppmv/1,000,000 MMscf/scf) x (86.18 molecular weight of NMOC {as hexane}))/((0.7302 universal gas constant



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x 520 Temp)) x (60 min/hr) x (1-0.98 control efficiency of the control device(s)) = result in lb/hr.

*Default NMOC concentration in inlet gas from AP-42 = 595 ppmv.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 or 25/25C of 40 CFR Part 60, Appendix A.

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

f. Emission Limitations:

Control device VOC emissions shall not exceed 0.29 pound per hour and 1.26 tons per year.

Applicable Compliance Methods:

Initial compliance with the above hourly emission limitation may be determined by using AP-42, Municipal Solid Waste Landfills [11/98] and the following equation:

((the maximum landfill gas generation rate of 4,550 scfm) x (595 *ppmv/1,000,000 MMscf/scf x .39 percentage of VOC in landfill gas from AP-42) x (86.18 molecular weight of NMOC {as hexane}))/((0.7302 universal gas constant x '520 Temp)) x (60 min/hr) x (1-0.98 control efficiency of the control device(s)) = 0.29 lb/hr.

*Default NMOC concentration in inlet gas from AP-42 = 595 ppmv.

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

((the maximum volume of landfill gas combusted by the control device(s) as demonstrated by recordkeeping, in scfm) x (595 *ppmv/1,000,000 MMscf/scf x .39 percentage of VOC in landfill gas from AP-42) x (86.18 molecular weight of NMOC {as hexane}))/((0.7302 universal gas constant x '520 Temp)) x (60 min/hr) x (1-0.98 control efficiency of the control device(s)) = result in lb/hr.

*Default NMOC concentration in inlet gas from AP-42 = 595 ppmv.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 or 25/25C of 40 CFR Part 60, Appendix A.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore,

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provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

- (3) Compliance with the emission limitation in 40 CFR Part 60, Subpart WWW (40 CFR Parts 60.750-759) specified in Section b)(1) shall be determined in accordance with the following methods:
- a. Emission Limitation:
- Should the permittee install a control system that complies with 40 CFR Part 60.752(b)(2)(iii) (A) (*open flare*), visible emissions from any open flare shall not exceed a total of five minutes during any two consecutive hours.
- Applicable Compliance Method:
- If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03. See f)(4) below.
- b. Emission Limitation:
- Should the permittee install a control system that complies with 40 CFR Part 60.752(b)(2)(iii), (B) (*control system*), visible emissions from the stack serving any control device other than an open flare shall not exceed 10% opacity as a six-minute average. See f)(4) below.
- Applicable Compliance Method:
- If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). See f)(4) below.
- c. Emission Limitation:
- The control system shall be designed and operated to reduce NMOC by 98% by weight; or, if the control is an enclosed combustion device, shall either reduce the NMOC by 98% by weight or reduce the outlet NMOC concentration to less than 20 ppm, by volume, on a dry basis as hexane at 3% oxygen.
- Applicable Compliance Method:
- If required, Method 25, 25C, or Method 18 of appendix A of 40 CFR Part 60 must be used to determine compliance unless another method to demonstrate compliance has been approved by the Administrator as provided by 40 CFR Part 60.752(b)(2)(i)(B). Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3%. See f)(4) below.

d. Emission Limitation:

Should the permittee install a treatment system that complies with 40 CFR Part 60.752(b)(2)(iii) (C) (*treatment system*), all emissions from any atmospheric vent from the gas treatment gas treatment system shall meet the requirements of 40 CFR 60.752(B)(2)(iii)(A) or (B).

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03; or

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). See f)(4) below.

- (4) Upon new control equipment installation, the permittee shall conduct or have conducted, performance test(s) to demonstrate that the flare(s) and/or enclosed combustor(s) can operate in conformance with the requirements specified below:
- a. The testing for any new control equipment installation shall be conducted within 180 days after the initial startup of the approved control system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission limitation for any open flare or other control device specified in 40 CFR 60.752(b)(2)(iii)(A) or (B); and the control device reduction efficiency or ppm emission limitation specified in 40 CFR 60.752(b)(2)(iii)(B).
 - c. For an open flare, a performance test shall be conducted to demonstrate compliance with the requirements specified in 40 CFR 60.18. The net heating value of the gas being combusted in the flare and the actual exit velocity of the flare shall be determined in accordance with the procedures and methods specified in 40 CFR 60.754(e). The visible emission evaluations shall be conducted in accordance with the procedures specified in section b)(3)a. above.
 - d. For any other control device, Method 9 of 40 CFR Part 60, Appendix A shall be used to determine compliance with the visible emission limitations. Method 25, 25C, or Method 18 of Appendix A of this part must be used to determine compliance with the 98 weight-percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by 40 CFR Part 60.752(b)(2)(i)(B). Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 %. In cases where the outlet concentration is less than 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, the minimum list

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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:

Control Efficiency = $(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}}) / \text{NMOC}_{\text{in}}$ where,
NMOC_{in} = mass of NMOC entering control device
NMOC_{out} = mass of NMOC exiting control device

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.

- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

- (1) The Toxic Air Contaminant Statute, ORC 3704.03(F), was applied to this emissions unit for each toxic air contaminant listed in OAC rule 3745-114-01. Each toxic air contaminant emitted over one ton per year was evaluated using data from the permit application. The permittee has demonstrated that the emissions of hydrogen Chloride (HCL) are calculated to be less than eighty percent of the maximum acceptable ground level concentration (MAGLIC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the Toxic Air contaminant Statute, ORC 3704.03(F).