State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

02/22/06

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

16-52-05-0040
Owens Corning, Medina Plant
Brian Thomas
890 W. Smith Road
Medina, OH 44256

Dear Brian Thomas:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

If you have any questions, please contact Akron Air Pollution Control.

Sincerely,

Michael W. Ahern

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Akron Air Pollution Control
File, DAPC PMU

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **02/22/06**	Effective Date: **03/15/06**	Expiration Date: **03/15/11**

This document constitutes issuance of a Title V permit for Facility ID: 16-52-05-0040 to:
Owens Corning, Medina Plant
890 W. Smith Road
Medina, OH 44256

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

B006 (Asphalt Preheater)
10.50 MMBtu/hr asphalt preheater; fires natural gas or #2 fuel oil with sulfur content of less than or equal to 0.3 percent

F002 (Asphalt Pouring Shed)
Pouring of asphalt into containers

F104 (Paved and Unpaved Roads)
Paved and unpaved roads

J001 (Asphalt Loading Rack #1)
Loading of asphalt into trucks

J002 (Asphalt Loading Rack #2)
Loading of asphalt into trucks

J003 (Asphalt Loading Rack #3)
Loading of asphalt into trucks

J005 (Asphalt Loading Rack #4)
Loading of asphalt into trucks

J006 (Cutback Loading Rack)
Loading of cutback asphalt into trucks

P003 (Convertor #2)
Asphalt blowing still

P004 (Convertor #3)
Asphalt blowing still

P005 (Convertor #1)
Asphalt blowing still; used to be called Convertor #4

P006 (Convertor #4)
Asphalt blowing still; used to be called Convertor #5

P007 (Convertor #5)
Asphalt blowing still; used to be called Convertor #6

P901 (Parting Agent Handling System)
Unloading and transfer of parting agent (backdust)

P902 (Mineral Filler Handling System #1)
Unloading and transfer of filler for the laminate (3-wide) roofing line

P904 (Mineral Filler Handling System #2)
Unloading and transfer of filler for the strip (4-wide) roofing line

P905 (Material Surfacing Applicator #1)
Application of surfacing materials (i.e., granules and backdust) on the laminate (3-wide) roofing line

P906 (Asphalt Coater/Coating Surge Tank #1)
Equipment to produce asphalt coated mat on the laminate (3-wide) roofing line

P907 (Asphalt Filler Mixer #2)
Filler mixer for the strip (4-wide) roofing line

P908 (Asphalt Coater/Surge Tank #2)
Equipment to produce asphalt coated mat on the strip (4-wide) roofing line

P909 (Material Surfacing Applicator #2)
Application of surfacing materials (i.e., granules and backdust) on the strip (4-wide) roofing line

P910 (Cooling Section #2)
Cooling of asphalt coated product on the strip (4-wide) roofing line

P911 (Cooling Section #1)
Cooling of asphalt coated product on the laminate (3-wide) roofing line

P912 (MLA System)
Modified laminate adhesive system on the laminate (3-wide) roofing line

P913 (MSA System #1)
Modified sealant asphalt system on the laminate (3-wide) roofing line

P914 (Mat Unwind #1)
Unwinding of mat prior to dry looper on the laminate (3-wide) roofing line

P915 (MSA System #2)
Modified sealant asphalt system for the strip (4-wide) roofing line

P916 (Mat Unwind #2)
Unwinding of mat prior to dry looper on the strip (4-wide) roofing line

P917 (Asphalt Filler Mixer #1)
Filler mixer for the laminate (3-wide) roofing line

P918 (Surfacing Material System #1)
Unloading, transfer, and storage of headlap granules

P919 (Mineral Filler Storage System #1)
Storage of filler for the laminate (3-wide) roofing line

P920 (Mineral Filler Storage System #2)
Storage of filler for the strip (4-wide) roofing line

P921 (Parting Agent Storage System)
Storage of parting agent (backdust)

P922 (Surfacing Material System #2)
Unloading, transfer, and storage of prime granules

T001 (Asphalt Storage Tank #25)
Asphalt storage; 245,000 gallons

T004 (Asphalt Storage Tank #24)
Asphalt storage; 245,000 gallons

T005 (Asphalt Storage Tank #23)
Asphalt storage; 345,000 gallons

T006 (Mineral Spirits Storage Tank #61)
Mineral spirits storage; 100,000 gallons

T007 (Asphalt Storage Tank #50)
Asphalt storage; 60,000 gallons

T008 (Asphalt Storage Tank #52)
Asphalt storage; 30,000 gallons

T009 (Asphalt Storage Tank #53)
Asphalt storage; 60,000 gallons

T010 (Mineral Spirits Storage Tank #60)
Mineral spirits storage; 28,600 gallons

T011 (Cutback Asphalt Storage Tank #62)
Cutback asphalt blending, cooling, and storage; 100,000 gallons

T012 (Cutback Asphalt Storage Tank #65)
Cutback asphalt blending, cooling, and storage; 28,600 gallons

T013 (Cutback Asphalt Storage Tank #66)
Cutback asphalt blending, cooling, and storage; 28,600 gallons

T014 (Asphalt Storage Tank #26)
Asphalt storage; 29,000 gallons

T015 (Asphalt Storage Tank #27)
Asphalt storage; 29,000 gallons

T016 (Asphalt Storage Tank #30)
Asphalt storage; 18,500 gallons

T017 (Asphalt Storage Tank #31)
Asphalt storage; 18,500 gallons

T018 (Asphalt Storage Tank #40)
Asphalt storage; 18,000 gallons

T019 (Asphalt Storage Tank #41)
Asphalt storage; 18,000 gallons

T020 (Asphalt Storage Tank #42)
Asphalt storage; 18,000 gallons

T021 (Asphalt Storage Tank #32)
Asphalt storage; 18,500 gallons

T022 (Cutback Asphalt Storage Tank #64)
Cutback asphalt blending, cooling, and storage; 28,600 gallons

T023 (Cutback Asphalt Storage Tank #63)
Cutback asphalt blending, cooling, and storage; 28,600 gallons

T026 (Asphalt Storage Tank #28)
Asphalt storage; 29,000 gallons

T027 (Asphalt Storage Tank #29)
Asphalt storage; 100,000 gallons

T029 (Asphalt Storage Tank #44)
Asphalt storage; 400,000 gallons

T030 (Asphalt Storage Tank #36)
Asphalt storage; 100,000 gallons

T031 (Asphalt Storage Tank #51)
Asphalt storage; 29,600 gallons

T032 (Asphalt Storage Tank #59)
Cutback asphalt blending, cooling, and storage; 29,600 gallons

T033 (Asphalt Storage Tank #67)
Cutback asphalt blending, cooling, and storage; 29,600 gallons

T034 (Asphalt Storage Tank #45)
Asphalt storage; 1,700,000 gallons

T035 (Asphalt Storage Tank #46)
Asphalt storage; 1,700,000 gallons

T036 (Asphalt Storage Tank #69)
Asphalt storage; 30,000 gallons

T037 (Asphalt Storage Tank #70)
Asphalt storage; 60,000 gallons

T038 (Mineral Spirits Storage Tank #68)
Mineral spirits storage; 20,000 gallons

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Akron Air Pollution Control
146 South High Street, Room 904
Akron, OH 44308
(330) 375-2480

Ohio Environmental Protection Agency

Joseph P. Koncelik
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

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

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

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

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

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

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

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

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit**,** and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V

permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Risk Management Plans

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

a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

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

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

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

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

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

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:

i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

ii. the permittee no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

iii. a combination of i. and ii. above.

The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.
(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.
(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.
(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

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

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

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

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

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

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

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

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

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

i. 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.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:

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

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

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

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

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

14. Operational Flexibility

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

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

15. Emergencies

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

16. Off-Permit Changes

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

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

17. Compliance Method Requirements

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

18. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.
(Authority for term: OAC rule 3745-77-07(A)(1))

21. Permanent Shutdown of an Emissions Unit

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

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-01)

22. Title VI Provisions

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

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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

B. *State Only Enforceable Section*

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

2. Records Retention Requirements

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.

3. Inspections and Information Requests

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

4. Scheduled Maintenance/Malfunction Reporting

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

5. Permit Transfers

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

6. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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

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

a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii; or

b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. The permittee's existing emissions units are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asphalt Processing and Asphalt Roofing Manufacturing, 40 CFR Part 63, Subpart LLLLL and, therefore, are subject to all the requirements listed for the emissions units pursuant to 40 CFR Part 63, Subpart LLLLL, which include, but are not limited to, the following:

For each Group 1 asphalt loading rack and blowing still:

a. reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or

b. route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Total particulate emissions from the coating mixer, coater, sealant applicator, and adhesive applicator at each existing asphalt manufacturing line shall be limted to 0.04 kilograms emissions per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

For each existing coater:

a. limit exhaust gases to 20 percent opacity; and

b. limit visible emissions from the emission capture system to 20 percent of any period of consecutive valid observations totaling 60 minutes.

For each Group 2 asphalt storage tank limit exhaust gases to 0 percent opacity.

2. The permittee shall achieve total, ongoing compliance with all applicable requirements of 40 CFR Part 63, Subpart LLLLL on or before the mandatory compliance date of May 1, 2006. Also, the permittee shall complete any performance test required in paragraph 63.8687 within the time limits specified in paragraph 63.8686.

3. Given the applicability of 40 CFR Part 63, Subpart LLLLL, the permittee must also comply with applicable provisions of 40 CFR Part 63, Subpart A as referenced in Table 7 of 40 CFR Part 63, Subpart LLLLL (see Attachment 1).

4. Stack emissions shall be limited to 0.01 grain per dry standard cubic foot (gr/dscf) of particulate emissions for the 4-wide and Roofing Line process dust collectors. These process dust collectors control the following emissions units:

4-Wide Process Dust Collector

P916 - Mat Unwind #2;
P907 - Asphalt Filler Mixer #2;
P909 - Material Surfacing Applicator #2;
P918 - Surfacing Material System #1; and
F922 - Surfacing Material System #2;

Roofing Line Process Dust Collector

P904 - Mineral Filler Handling System #2;
P905 - Material Surfacing Applicator #1; and
P909 - Material Surfacing Applicator #2.

A. State and Federally Enforceable Section (continued)

5. In order to comply with the air dispersion modeling requirements from the federal Prevention of Significant Deterioration rules and OAC rules 3745-31-13 through 3745-31-20, the following exhaust stack requirements shall be maintained:

a. exhaust stack from the JZ thermal incinerator (egress point A43) that serves emissions units T007 - T009, T026, T029, T031 - T033, T036, T037, and P003 - P005 shall be at least 130 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements;

b. exhaust stack from the asphalt pre-heater (egress point A42A) that serves emissions unit B006 shall be at least 35 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements;

c. exhaust stack from the PCC thermal incinerator (egress point A74A) that serves emissions units T027, T030, T035, J005, P006, and P007 shall be at least 135 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements; and

d. exhaust stack from the emergency generator (egress points A105 and A106) that serves emissions unit B014 shall be at least 45 feet above ground level and be in compliance with all variables associated with that exhaust stack that demonstrated compliance with those requirements.

6. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the U.S. EPA in 40 CFR Part 60:

Source Number	Source Description	NSPS Regulation(s)
P003	Convertor #2	UU
P006	Convertor #4	UU
P007	Convertor #5	UU
P902	Mineral Filler Handling System #1	UU
P906	Asphalt Coater/Surge Tank #1	UU
P908	Asphalt Coater/Surge Tank #2	UU
T007	Asphalt Storage Tank #50	UU & Kb
T035	Asphalt Storage Tank #46	UU & Kb
T036	Asphalt Storage Tank #69	UU & Kb
T037	Asphalt Storage Tank #70	UU & Kb
T038	Mineral Spirits Storage Tank #68	Kb

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);
b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
c. actual start-up date (within 15 days after such date); and
d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

A. State and Federally Enforceable Section (continued)

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Akron Regional Air Quality Management District
Room 904
146 South High Street
Akron, OH 44308

7. The permittee shall not combust any no. 2 distillate fuel oil within the entire facility (in B002 - B014, B101 - B107, F102 - F109, J001 - J006, K001 - K002, L001, P003 - P007, P102 - P103, P901 - P902, P904 - P919, T001, T004 - T023, and T026 - T050) that has a sulfur content greater than 0.3% by weight.

8. The maximum annual operating hours for the firing of no. 2 distillate fuel oil in each of emissions units Boiler #1 (B004), Boiler #2 (B002), Hot Oil Heater #5 (B107), and the two heaters on Asphalt Storage Tank #46 (B011 and B012) shall not exceed 500 hours per year, based upon a rolling, 12-month summation of the operating hours. The permittee has existing operation records and, therefore, does not need to be limited to first year monthly operating hours amounts.

9. The permittee shall maintain monthly records of the operating hours for the firing of no. 2 distillate fuel oil in each of emissions units Boiler #1 (B004), Boiler #2 (B002), Hot Oil Heater #5 (B107), and the two heaters on Asphalt Storage Tank #46 (B011 and B012).

10. The permittee shall maintain records of all the oil burned at this facility in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

11. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month operating hours limitations. These reports are due by the dates described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

A. State and Federally Enforceable Section (continued)

12. The following insignificant emissions units are located at this facility:

B002 - boiler #2;
B003 - boiler #3;
B004 - boiler #1;
B005 - boiler #4;
B013 - emergency generator #1;
B014 - emergency generator #2;
B101 - asphalt preheater #1;
B102 - asphalt preheater #2;
B104 - hot oil heater #1;
B105 - hot oil heater #2;
B106 - hot oil heater #3;
B107 - hot oil heater #5;
B108 - asphalt preheater #3;
P102 - ink jet printer #1; and
P103 - ink jet printer #2.

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

13. The permittee shall notify the Director (the Akron RAQMD) in writing of any record that shows a deviation of the allowable sulfur content limitation based upon the records maintained pursuant to section A.10 above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

This facility is subject to the applicable requirements of 40 CFR 82, Subpart F.

14. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.

15. The permittee is subject to the applicable requirements of 40 CFR Part 63, Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coatings. The text of this rule is included in Attachment 2 hereto, and is hereby incorporated into this permit as if fully rewritten.

The following sources are subject to Subpart JJJJ:

P906 - Asphalt Coater/Coating Surge Tank #1; and
P908 - Asphalt Coater/Surge Tank #2.

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

B007 - hot oil heater #4;
B008 - asphalt storage tank #25 burner;
B009 - asphalt storage tank #28 burner;
B010 - asphalt stoage tank #53 burner;
B011 - asphalt storage tank #46 burner #1;
B012 - asphalt storage tank #46 burner #2;
F102 - recyclable material storage pile;
F106 - cooling tower #1;
F107 - cooling tower #2;
F108 - cooling tower #3;
F109 - cooling tower #4;
K101 - nailer line roller #1;
K102 - nailer line roller #2;
L001 - parts washer #1;
L101 - parts washer #2;
L102 - parts washer #3;
P923 - backdust reintroduction system;
T039 - cutter stock storage tank #16;
T040 - catalyst storage tank #17;
T041 - cutter stock storage tank #18;
T042 - catalyst storage tank #19;
T043 - fuel oil storage tank;
T044 - propane storage tank;
T045 - gasoline storage tank;
T046 - kerosene stoage tank;
T048 - diesel storage tank #1;
T049 - diesel storage tank #2; and
T050 - diesel storage tank #3.

B. State Only Enforceable Section (continued)

2. The permit to install for emissions units J003, J005, P003, P006 - P007, P902, P906, P908, P910, P911, P917, T007, and T035 - T038 were evaluated based on the actual materials employed and the design parameters of the emissions units' exhaust systems, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by these emissions units using data from the permit to install application and the ISCST3 model . The predicted 1-hour maximum ground-level concentration from the use of the ISCST3 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: HCl
TLV (mg/m3): 2.20 (based on 2 ppm STEL)
Modeled Emission Rate (lbs/hr): 5.906 (total)
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 22.7
MAGLC (ug/m3): 52.4 (the application presents a value of 131.6 ppm based on the 7.5 mg/m3 STEL)

Pollutant: Benzene
TLV (mg/m3): 1.60 (based on 0.5 ppm TWA)
Modeled Emission Rate (lbs/hr): 0.455 (total)
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.8
MAGLC (ug/m3): 38.1

Pollutant: Ethyl Benzene
TLV (mg/m3): 434 (based on 100 ppm TWA)
Modeled Emission Rate (lbs/hr): 0.429 (total)
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1.7
MAGLC (ug/m3): 10,333

3. Physical changes to or changes in the method of operation of these emissions units after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials used, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

B. State Only Enforceable Section (continued)

4. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Preheater (B006)

Activity Description: 10.50 MMBtu/hr asphalt preheater; fires natural gas or #2 fuel oil with sulfur content of less than or equal to 0.3 percent

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
10.50 MMBtu/hr Asphalt Preheater - natural gas or no. 2 fuel oil fired	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also includes compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-18-06(D), 3745-21-08, and 3745-23-06. See A.II.1 below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/MMBtu of actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide (SO2) emissions shall not exceed 1.6 lbs/MMBtu of actual heat input.
	OAC rule 3745-21-08	None, see section A.I.2.b below.
	OAC rule 3745-23-06	None, see section A.I.2.a below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 16-02347.

2. Additional Terms and Conditions (continued)

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 16-02347.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

1. The permittee shall not combust any no. 2 distillate fuel oil in this emissions unit that has a sulfur content greater than 0.3%, by weight.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The permittee shall burn only natural gas and no. 2 distillate fuel oil in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. For each day during which the permittee burns a fuel other than natural gas or no 2 distillate fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the Akron RAQMD) in writing of any record which shows a deviation of the allowable sulfur content limitation based upon the calculated sulfur content from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after the deviation occurs.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or no. 2 distillate fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Particulate emissions shall not exceed 0.020 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated through stack testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitation:

SO2 emissions shall not exceed 1.6 lbs/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated through stack testing in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Pouring Shed (F002)

Activity Description: Pouring of asphalt into containers

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt pouring shed (pouring of finished asphalt into drums)	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The permittee shall control the pouring temperature to the lowest practical temperature to minimize or eliminate visible particulate emissions of fugitive dust.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions and visible particulate emissions from the stack 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Paved and Unpaved Roads (F104)

Activity Description: Paved and unpaved roads

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
paved roadways and parking areas	OAC rule 3745-17-07(B)(4)	no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See A.I.2.a, A.I.2.c, and A.I.2.e through A.I.2.i below.
unpaved roadways and parking areas	OAC rule 3745-17-07(B)(5)	no visible particulate emissions except for 13 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust See A.I.2.b, A.I.2.d, and A.I.2.e through A.I.2.i below.

2. Additional Terms and Conditions

2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

paved roadways:

all

paved parking areas:

all

2. Additional Terms and Conditions (continued)

2.b The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

unpaved roadways:

all

unpaved parking areas:

all

2.c The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing additional control measures to ensure compliance.

2.d The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.e The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

2.f Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

2.g The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

2.h Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2.i 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 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the paved roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas	minimum inspection frequency
all	weekly

unpaved roadways and parking areas	minimum inspection frequency
all	weekly

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

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

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

3. The permittee shall maintain records of the following information:

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

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

c. the dates the control measures were implemented; and

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

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

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:

a. each week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

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

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

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

V. Testing Requirements

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Loading Rack #1 (J001)

Activity Description: Loading of asphalt into trucks

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
asphalt loading rack #1 controlled with a regenerative thermal incinerator that is operated with electricity rather than fossil fuel	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also includes the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), 3745-17-08(B), 3745-17-11, 3745-21-07(E), and 40 CFR Part 63, Subpart LLLLL. See A.II.3 below.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	The permittee shall employ overhead filling of tank-trucks to minimize or eliminate fugitive emissions.
	OAC rule 3745-17-11	11.58 lbs/hr of particulates (based on an uncontrolled mass rate of emissions for J001, J002, and J003 of 103.81 lbs/hr, and the use of Curve P-1 of Figure II)
	OAC rule 3745-21-07(E)	exempt See A.II.1 below.
	40 CFR Part 63, Subpart LLLLL	exempt Group 2 asphalt loading rack See A.II.3 below.

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature established during the most recent emission test that demonstrated the emissions unit was in compliance.

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

3. The permittee shall not load asphalt with a temperature of 500 degrees F or greater or with a true vapor pressure of 1.5 psia or greater.

(Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart LLLLL)

4. The permittee shall only operate two (2) of the following emissions units simultaneously: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003).

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.

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

3. The permittee shall maintain monthly records of the operating times of emissions units J001, J002, and J003.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall maintain daily records that document the maximum temperature and the maximum true vapor pressure of the asphalt loaded.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above.

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when more than 2 of the following emissions units operated simultaneously: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003).

(Authority for term OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

4. The permittee shall notify the Director (the Akron RAQMD) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

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

5. The permittee shall notify the Director (the Akron RAQMD) in writing if asphalt with a temperature of 500 degrees F or greater or with a true vapor pressure of 1.5 psia or greater is employed in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

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

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

11.58 lbs/hr of particulates

Applicable Compliance Method:

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Loading Rack #2 (J002)

Activity Description: Loading of asphalt into trucks

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
asphalt loading rack #2 controlled with a regenerative thermal incinerator that is operated with electricity rather than fossil fuel	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also includes the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), 3745-17-08(B), 3745-17-11, 3745-21-07(E), and 40 CFR Part 63, Subpart LLLLL. See A.II.3 below.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	The permittee shall employ overhead filling of tank-trucks to minimize or eliminate fugitive emissions.
	OAC rule 3745-17-11	11.58 lbs/hr of particulates (based on an uncontrolled mass rate of emissions for J001, J002, and J003 of 103.81 lbs/hr, and the use of Curve P-1 of Figure II)
	OAC rule 3745-21-07(E)	exempt See A.II.1 below.
	40 CFR Part 63, Subpart LLLLL	exempt Group 2 asphalt loading rack See A.II.3 below.

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature established during the most recent emission test that demonstrated the emissions unit was in compliance.

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

3. The permittee shall not load asphalt with a temperature of 500 degrees F or greater or with a true vapor pressure of 1.5 psia or greater.

(Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart LLLLL)

4. The permittee shall only operate two (2) of the following emissions units simultaneously: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003).

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.

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

3. The permittee shall maintain monthly records of the operating times of emissions units J001, J002, and J003.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall maintain daily records that document the maximum temperature and the maximum true vapor pressure of the asphalt loaded.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitation specified above.

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when more than 2 of the following emissions units operated simultaneously: Loading Rack #1 (J001), Loading Rack #2 (J002), and Loading Rack #3 (J003).

(Authority for term OAC rule 3745-77-07(C)(1) and PTI 17-02347)

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

4. The permittee shall notify the Director (the Akron RAQMD) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

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

5. The permittee shall notify the Director (the Akron RAQMD) in writing if asphalt with a temperature of 500 degrees F or greater or with a true vapor pressure of 1.5 psia or greater is employed in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

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

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

11.58 lbs/hr of particulates

Applicable Compliance Method:

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Loading Rack #3 (J003)

Activity Description: Loading of asphalt into trucks

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt Loading Rack #3 controlled with regenerative thermal incinerator that is operated with electricity rather than fossil fuel	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also includes compliance with the requirements of OAC rules 3745-21-07(E), 3745-31-13 thru 3745-31-20, 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 4.68 lbs/hr. Sulfur dioxide (SO2) emissions shall not exceed 0.58 lb/hr. Carbon monoxide (CO) emissions shall not exceed 0.25 lb/hr. Hydrogen sulfide (H2S) emissions shall not exceed 0.03 lb/hr. Volatile organic compound (VOC) emissions shall not exceed 16.60 lbs/hr. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations. Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-18-06	The emission limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(E)	Exempt. See A.II.3 below.
	OAC rules 3745-31-13 through 20	The emissions per rolling, 12-month period shall not exceed: CO - 0.17 tpy VOC - 6.42 tpy SO2 - 0.39 tpy The destruction efficiency shall not be less than 95% for CO and VOC.
	OAC rule 3745-31-05(C)	The total amount of asphalt loaded from this emissions unit shall not exceed 87,500 tons per year, as a rolling, 12-month summation. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 1.81 tpy H2S - 0.02 tpy See A.II.2 below.
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this requirement is May 1, 2006.

2. Additional Terms and Conditions

2.a The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The permittee shall only operate two (2) of the following emissions units simultaneously: J001, J002, and J003.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The asphalt throughput for this emissions unit shall not exceed 87,500 tons per year, based upon a rolling, 12-month summation of the monthly asphalt throughputs. The permittee has existing asphalt production records and, therefore, does not need to be limited to first year monthly asphalt throughput amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

4. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

5. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall maintain monthly records of the following information:

a. the asphalt throughput rate, in tons, for each month;

b. the operating times for emissions units J001, J002, and J003;

c. the PE/PM-10, H2S, CO, VOC, and SO2 emissions, in tons, for each month based upon the results of the latest stack test;

d. the rolling, 12-month summation of the monthly asphalt throughput rates, in tons; and

e. the rolling, 12-month summation of the PE/PM-10, H2S, CO, VOC, and SO2 emissions rates, in tons.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modification deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

III. Monitoring and/or Record Keeping Requirements (continued)

7. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

8. For each temperature monitoring device, the permittee must meet the requirements in section A.III.7 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator;

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

9. As an option to installing the CPMS specified in section A.III.7, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

III. Monitoring and/or Record Keeping Requirements (continued)

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

1. The permittee shall notify the Director (the Akron RAQMD) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

IV. Reporting Requirements (continued)

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

a. all periods of time when more than 2 of the following emissions units operated simultaneously: J001, J002, and J003;

b. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitations specified above;

c. all exceedances of the rolling, 12-month asphalt throughput limitation;

d. all exceedances of the rolling, 12-month emissions limitations; and

e. all periods of time during which the static pressure in the vacuum manifold exceeded the normal operating range.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The quarterly deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall also submit annual reports that specify the total PE/PM-10, SO2, CO, VOC, and H2S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

7. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 21. The compliance reports must be postmarked or delivered no later than July 21 or January 21, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term: 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.

Applicable compliance methods:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.b Emission Limitations:

4.68 lbs/hr of PE/PM-10
1.81 tons per year of PE/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitations shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitations:

0.58 lb/hr of SO2
0.39 ton per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitations:

0.25 lb/hr of CO
0.17 ton per year of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.e Emission Limitations:

16.60 lbs/hr of VOC
6.42 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.f Emission Limitations:

0.03 lb/hr of H2S
0.02 ton per year of H2S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.g Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months of commencement of operation of the modified loading rack and within 6 months prior to permit expiration, except for the total hydrocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for 40 CFR Part 63, Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates and opacity limitation.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and opacity limitation:

for opacity, Method 9 of 40 CFR Part 60, Appendix A;

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A;

for VOC, Methods 1 thru 4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A; and

for total hydrocarbon/combustion efficiency testing, the test methods included in Table 3 of 40 CFR Part 63, Subpart LLLLL..

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

d. 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 Akron RAQMD.

All performance testing on J003 shall be completed while J001 and J002 are not venting to the thermal incinerator and compliance shall be based on comparing the results of the performance tests to the allowable emission limits for J003.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Loading Rack #4 (J005)

Activity Description: Loading of asphalt into trucks

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt Loading Rack #4 controlled with PCC thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also includes compliance with the requirements of OAC rules 3745-21-07(E), 3745-31-(13) thru (20), 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 5.44 lbs/hr. Sulfur dioxide (SO2) emissions shall not exceed 1.16 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 0.50 lb/hr. Hydrogen sulfide (H2S) emissions shall not exceed 0.07 lb/hr. Volatile organic compound (VOC) emissions shall not exceed 19.29 lbs/hr. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		PE emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation. NOx emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation. SO2 emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation. CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation. OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030, and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation. Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-18-06	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-21-07(E)	Exempt See A.II.2 below.
	OAC rules 3745-31-13 through 20	The emissions per rolling, 12-month period shall not exceed: CO - 0.52 tpy VOC - 20.16 tpy SO2 - 1.22 tpy. The destruction efficiency shall not be less than 95% for CO and VOC.
	OAC rule 3745-31-05(C)	The total amount of asphalt loaded from this emissions unit shall not exceed 275,000 tons per year, as a rolling, 12-month summation. The emissions per rolling, 12-month period shall not exceed: 5.69 tpy PE/PM-10 0.070 tpy H2S. See A.II.1 below.
	40 CFR Part 63, Subpart LLLLL	Exempt, Group 2 asphalt loading rack. The compliance date for this requirement is May 1, 2006.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The asphalt throughput for this emissions unit shall not exceed 275,000 tons per year, based upon a rolling, 12-month summation of the monthly asphalt throughputs. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The permittee shall only load asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

II. Operational Restrictions (continued)

4. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) andPTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall maintain monthly records of the following information:

a. the asphalt throughput rate, in tons, for each month;

b. the PE/PM-10, H2S, CO, VOC, and SO2 emissions, in tons, (both process and products of combustion from the incinerator) for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the monthly asphalt throughput rates, in tons; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, CO, VOC, and SO2 emissions rates, in tons (both process and products of combustion from the incinerator).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall operate and maintain a continuous monitor and recorder which measures the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modification deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold static pressure falls below normal operating levels.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall notify the Director (the Akron RAQMD) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitations specified above;

b. all exceedances of the rolling, 12-month asphalt throughput limitation;

c. all exceedances of the rolling, 12-month emissions limitations (both process and products of combustion from the incinerator); and

d. all periods of time during which the static pressure in the vacuum manifold exceeded the normal operating range.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The quarterly deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall also submit annual reports that specify the total PE/PM-10, SO2, CO, VOC, and H2S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

IV. Reporting Requirements (continued)

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions from the exhaust stack shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.b Emission Limitations:

5.44 lbs/hr of PE/PM-10
5.69 tons per year of PE/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitations:

1.16 lbs/hr of SO2
1.22 tons per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.d Emission Limitations:

0.50 lb/hr of CO
0.52 ton per year of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.e Emission Limitations:

19.29 lbs/hr of VOC
20.16 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.f Emission Limitations:

0.07 lb/hr of H2S
0.07 ton per year of H2S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with tons per year limitation based upon a rolling 12-month summation can be ensured by compliance with the lbs/hr limitation and the annual production/throughput limitation based upon a rolling 12-month summation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.g Emission Limitations:

0.17 lb/hr of PE (products of combustion from incinerator)
0.76 ton per year of PE, as a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE limitation (0.17 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.h Emission Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)
4.33 tons per year of CO

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.99 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.i Emission Limitations:

3.68 lbs/hr of SO2 (products of combustion from incinerator)
16.11 tons per year of SO2

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.69 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.j Emission Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.k Emission Limitations:

1.73 lbs/hr of NOx (products of combustion from incinerator)
7.56 tons per year of NOx

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.73 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration,

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates (including products of combustion).

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and opacity limitation:

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A; and

for VOC, Methods 1 thru 4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Compliance shall be based on comparing the results of the performance tests to the sum of the allowable emission limitations for the emissions units that vent to the thermal incinerator and were in operation during the performance test.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Loading Rack (J006)

Activity Description: Loading of cutback asphalt into trucks

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
loading rack - cutback	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08	The permittee shall employ overhead filling of tank trucks to minimize or eliminate fugitive emissions.
	OAC rule 3745-21-07(E)	exempt See A.II.1 below.

2. Additional Terms and Conditions

2.a Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The permittee shall only load cutback asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain documentation showing whether or not each asphalt material is a photochemically reactive material.

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the Akron RAQMD) in writing if a "photochemically reactive material" [as defined in OAC rule 3745-21-01(C)(5)] is employed in the emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Akron RAQMD) within 45 days after such an occurrence.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.2 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Convertor #2 (P003)

Activity Description: Asphalt blowing still

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Convertor #2 - asphalt blowing still with thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06, 3745-31-13 through 3745-31-20, 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.07 lbs/hr Nitrogen oxides (NOx) emissions shall not exceed 2.47 lbs/hr and 10.80 tons per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.15 lb/hr. Hydrogen chloride (HCl) emissions shall not exceed 4.53 lbs/hr and 14.13 tons per year. Lead emissions shall not exceed 9.18E-04 lb/hr and 4.02E-03 ton per year. Sulfur dioxide (SO2) shall not exceed 23.25 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 15.13 lbs/hr. Volatile organic compound (VOC) emissions shall not exceed 1.74 lbs/hr.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 0% opacity from the exhaust stack. PE emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation. NOx emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation. SO2 emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation. CO emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation. OC emissions from fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator shall not exceed 0.05 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11 OAC rule 3745-18-06	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2 b below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-23-06	See A.I.2.a below.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: CO - 66. 26 tpy VOC - 7.61 tpy SO2 - 65.38 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	OAC rule 3745-31-05(C)	The total, annual asphalt production rate for emissions units P003, P006, and P007, combined, shall not exceed 395,312 tons per year, as a rolling, 12-month summation. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 13.45 tpy H2S - 0.67 tpy See A.II.3 below.
	40 CFR Part 60, Subpart UU	0.60 kilogram of particulates/megagram of asphalt charged to the still (1.2 lbs/ton) 0.67 kilogram of particulates/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton) Visible particulate emissions shall not exceed 0% opacity for the exhaust gases.
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 16-02347.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The total, annual asphalt processed in emissions units P003, P006 and P007, combined, shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall operate and maintain a continuous monitor and recorder which measures the pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall maintain monthly records of the following information:

a. the asphalt throughput rate (both with and without the use of a ferric chloride catalyst), in tons, for each month;

b. the rolling, 12-month summation of the asphalt monthly throughput rates, in tons;

c. the emission rates, in tons (for both the process and the products of combustion from the incinerator) for PE/PM-10, H2S, CO, VOC, and SO2 based upon the results of the latest stack test; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, CO, VOC, and SO2 emissions rates, in tons (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

III. Monitoring and/or Record Keeping Requirements (continued)

7. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

8. For each temperature monitoring device, the permittee must meet the requirements in section A.III.7 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

9. As an option to installing the CPMS specified in section A.III.7, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

III. Monitoring and/or Record Keeping Requirements (continued)

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and

b. all exceedances of the rolling, 12-month emissions limitations (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

IV. Reporting Requirements (continued)

3. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall also submit annual reports that specify the total PE/PM-10, SO2, CO, VOC, and H2S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirements may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

8. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term: 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity from the exhaust stack.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.b Emission Limitations:

3.07 lbs/hr of PE/PM-10
13.45 ton per year of PE/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitations based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE/PM-10 limitation (3.07 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitations:

0.60 kilogram of particulate/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilogram of particulate/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Methods:

Compliance with the kilogram/megagram emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitations:

23.25 lbs/hr of SO2
65.38 tons per year of SO2, based upon a rolling, 12-month summation.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by following equation:

[(1.40 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr without ferric chloride catalyst)] + [(0.70 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr with ferric chloride catalyst)] x (1 ton/2000 lbs) = tpy SO2

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.e Emission Limitations:

15.13 lbs/hr of CO
66.26 tons/yr of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (15.13 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.f Emission Limitations:

2.47 lbs/hr of NOx
10.80 tons per year of NOx

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (2.47 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.g Emission Limitations:

1.74 lbs/hr of VOC
7.61 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (1.74 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.h Emission Limitations:

0.15 lb/hr of H2S
0.67 ton per year of H2S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable H2S limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.i Emission Limitations:

9.18E-04 lb/hr of lead
4.02E-03 ton per year of lead

Applicable Compliance Methods:

If required, compliance shall be demonstrated by emission testing performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable lead limitation (9.18E-04 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.j Emission Limitations:

0.15 lb/hr of PE (products of combustion from incinerator)
0.64 ton per year of PE, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.k Emission Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.84 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.l Emission Limitations:

3.13 lbs/hr of SO2 (products of combustion from incinerator)
13.69 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.13 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.m Emission Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.n Emission Limitations:

1.47 lbs/hr of NOx (products of combustion from incinerator)
6.43 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.47 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.o Emission Limitations:

4.53 lbs/hr HCl
14.13 tons per year of HCl

Applicable Compliance Method:

Compliance shall be demonstrated by emission tests performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.p Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The PE emissions testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration. The PM-10, H2S, SO2, CO, and VOC emissions testing shall be conducted within 6 months of commencement of operation of the modified converter and, within 6 months prior to permit expiration. The total hydrocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for 40 CFR 63, Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) (including products of combustion).

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) and opacity limitation:

for opacity, Method 9 of 40 CFR Part 60, Appendix A;

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for NOx, Methods 1 thru 4 and 7 of 40 CFR part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A;

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A; and

for total hydrocarbon/combustion efficiency, the test methods included in Table 3 of 40 CFR Part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

All performance testing (except for PE and total hydrocarbon/combustion efficiency testing) on P003 shall be completed while P004 and P005 are not venting to the thermal incinerator and compliance shall be based on comparing the results of the performance tests to the allowable emission limits for P003.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Convertor #3 (P004)

Activity Description: Asphalt blowing still

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
converter #3 with thermal incinerator	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	12.10 lbs/hr of particulates (based on an UMRE for P003, P004, and P005 of 111.09 lbs/hr, and Curve P-1 of Figure II)
	40 CFR Part 60, Subpart UU	0.60 kilogram of particulates per megagram of asphalt charged to the still during blowing 0.67 kilogram of particulates per megagram of asphalt charged to the still when a catalyst is added to the still 0% opacity for the exhaust gases
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The visible particulate emission limitation based on OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2. Additional Terms and Conditions (continued)

2.b The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

3. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

III. Monitoring and/or Record Keeping Requirements (continued)

4. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

5. For each temperature monitoring device, the permittee must meet the requirements in section A.III.4 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

6. As an option to installing the CPMS specified in section A.III.4, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

III. Monitoring and/or Record Keeping Requirements (continued)

7. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

8. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

9. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

10. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitations specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

IV. Reporting Requirements (continued)

4. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

12.1 lbs/hr of particulates

0.60 kilogram of particulates per megagram of asphalt charged to the the still during blowing

0.67 kilogram of particulates per megagram of asphalt charged to the still when a catalyst is added to the still

Applicable Compliance Method:

Compliance with the lbs/hr and kilogram/megagram emission limitations shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.b Emission Limitation:

0% opacity for the exhaust gases

Applicable Compliance Method:

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

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

V. Testing Requirements (continued)

1.c Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration, except for total hydriocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.474, as applicable; and

for total hydrocarbon/combustion efficiency, the test methods included in Table 3 of 40 CFR Part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Convertor #1 (P005)

Activity Description: Asphalt blowing still; used to be called Convertor #4

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Convertor #1 with thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-420)	28.84 tpy of particulates The requirements of this rule also includes compliance with the requirements of OAC rule 3745-17-11, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	12.10 lbs/hr of particulates (based on an UMRE for P003, P004, and P005 of 111.09 lbs/hr, and Curve P-1 of Figure II)
	40 CFR Part 60, Subpart UU	0.60 kilogram of particulates per megagram of asphalt charged to the still during blowing 0.67 kilogram of particulates per megagram of asphalt charged to the still when a catalyst is added to the still 0% opacity for the exhaust gases

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The visible particulate emission limitation based on OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

3. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

4. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

5. For each temperature monitoring device, the permittee must meet the requirements in section A.III.4 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

6. As an option to installing the CPMS specified in section A.III.4, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

7. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

III. Monitoring and/or Record Keeping Requirements (continued)

8. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

9. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

10. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

11. The permittee shall maintain a monthly record of the hours of operation for this emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator did not comply with the temperature limitations specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

12.10 lbs/hr of particulates

0.60 kilogram of particulates per megagram of asphalt charged to the the still during blowing

0.67 kilogram of particulates per megagram of asphalt charged to the still when a catalyst is added to the still

Applicable Compliance Method:

Compliance with the lbs/hr and kilogram/megagram emission limitations shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.b Emission Limitation:

0% opacity for the exhaust gases

Applicable Compliance Method:

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

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

1.c Emission Limitation:

28.84 tpy of particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the results of the most recent stack test (in lbs/hr of particulates) by the actual hours of operation per year, and then dividing by 2,000 lbs/ton.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration, except for total hydriocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.474, as applicable; and

for total hydrocarbon/combustion efficiency, the test methods included in Table 3 of 40 CFR Part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Convertor #4 (P006)

Activity Description: Asphalt blowing still; used to be called Convertor #5

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Convertor #4 - asphalt blowing still with a PCC thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06, 3745-31-13 through 3745-31-20, 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.57 lbs/hr Nitrogen oxides (NOx) emissions shall not exceed 2.85 lbs/hr and 12.49 tons per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.18 lb/hr. Hydrogen chloride (HCl) emissions shall not exceed 5.27 lbs/hr and 16.44 tons per year. Lead emissions shall not exceed 1.06E-03 lb/hr and 4.66E-03 ton per year. Sulfur dioxide (SO2) shall not exceed 26.93 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 17.60 lbs/hr. Volatile organic compound (VOC) emissions shall not exceed 2.02 lbs/hr.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 0% opacity from the exhaust stack. PE emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation. NOx emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation. SO2 emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation. CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation. OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11 OAC rule 3745-18-06	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2 b below.
	OAC rule 3745-23-06	See A.I.2.a below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rules 3745-31-13 through 20	The emissions per rolling, 12-month period shall not exceed: CO - 77.10 tpy VOC - 8.85 tpy SO2 - 75.55 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	OAC rule 3745-31-05(C)	The total, annual asphalt production rate for emissions units P003, P006, and P007, combined, shall not exceed 395,312 tons per year, as a rolling, 12-month summation. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 15.64 tpy H2S - 0.78 tpy See A.II.3 below.
	40 CFR Part 60, Subpart UU	0.60 kilogram of particulates/megagram of asphalt charged to the still (1.2 lbs/ton) 0.67 kilogram of particulates/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton) Visible particulate emissions shall not exceed 0% opacity for the exhaust gases.
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 16-02347.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The total, annual asphalt processed in emissions units P003, P006 and P007, combined, shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and,

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall operate and maintain a continuous monitor and recorder which measures the pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall maintain monthly records of the following information:

a. the asphalt throughput rate(both with and without the use of a ferric chloride catalyst), in tons, for each month;

b. the rolling, 12-month summation of the asphalt monthly throughput rates, in tons;

c. the emission rates, in tons (for both the process and the products of combustion from the incinerator) for PE/PM-10, H2S, CO, VOC, and SO2; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, CO, VOC, and SO2 emissions rates, in tons (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

III. Monitoring and/or Record Keeping Requirements (continued)

7. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

8. For each temperature monitoring device, the permittee must meet the requirements in section A.III.7 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

9. As an option to installing the CPMS specified in section A.III.7, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

III. Monitoring and/or Record Keeping Requirements (continued)

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and

b. all exceedances of the rolling, 12-month emissions limitations (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

IV. Reporting Requirements (continued)

3. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall also submit annual reports that specify the total PE/PM-10, SO2, CO, VOC, and H2S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirements may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

8. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term: 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity from the exhaust stack.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.b Emission Limitations:

3.57 lbs/hr of PE/PM-10
15.64 ton per year of PE/PM-10, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE/PM-10 limitation (3.57 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitations:

0.60 kilogram of particulates/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilogram of particulates/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Methods:

Compliance with the kilogram/megagram emission limitations shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitations:

26.93 lbs/hr of SO2
75.55 tons per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by following equation:

[(1.40 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr without ferric chloride catalyst)] + [(0.70 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr with ferric chloride catalyst)] x (1 ton/2000 lbs) = tpy SO2

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.e Emission Limitations:

17.60 lbs/hr of CO
77.10 tons/yr of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (17.60 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.f Emission Limitations:

2.85 lbs/hr of NOx
12.49 tons per year of NOx

Applicable Compliance Methods:

If required, compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (2.85 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.g Emission Limitations:

2.02 lbs/hr of VOC
8.85 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (2.02 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.h Emission Limitations:

0.18 lb/hr of H2S
0.78 ton per year of H2S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable H2S limitation (0.18 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.i Emission Limitations:

1.06E-03 lb/hr of lead
4.66E-03 ton per year of lead

Applicable Compliance Methods:

Compliance shall be demonstrated by emission testing performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable lead limitation (1.06E-03 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.j Emission Limitations:

0.17 lb/hr of PE (products of combustion from incinerator)
0.76 ton per year of PE, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling 12-month summation was developed by multiplying the short-term allowable PE limitation (0.17 lb/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs per ton. Therehore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.k Emission Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)
4.33 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.99 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.l Emission Limitations:

3.68 lbs/hr of SO2 (products of combustion from incinerator)
16.11 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.68 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.m Emission Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.n Emission Limitations:

1.73 lbs/hr of NOx (products of combustion from incinerator)
7.56 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.73 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.o Emission Limitations:

5.27 lbs/hr HCl
16.44 tons per year of HCl

Applicable Compliance Method:

Compliance shall be demonstrated by emission tests performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable HCl limitation (5.27 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.p Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration, except for total hydrocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) (including products of combustion).

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) and opacity limitation:

for opacity, Method 9 of 40 CFR Part 60, Appendix A;

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for NOx, Methods 1 thru 4 and 7 of 40 CFR part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A; and

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A; and

for total hydrocarbon/combustion efficiency testing, the test methods specified in Table 3 of 40 CFR part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

Compliance shall be based on comparing the results of the performance tests to the sum of the allowable emission limitations for the emissions units that vent to the thermal incinerator and were in operation during the performance test.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Convertor #5 (P007)

Activity Description: Asphalt blowing still; used to be called Convertor #6

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Convertor #5 - asphalt blowing still with a PCC thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-23-06, 3745-31-13 through 3745-31-20, 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 3.57 lbs/hr Nitrogen oxides (NOx) emissions shall not exceed 2.85 lbs/hr and 12.49 tons per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.18 lb/hr. Hydrogen chloride (HCl) emissions shall not exceed 5.27 lbs/hr and 16.44 tons per year. Lead emissions shall not exceed 1.06E-03 lb/hr and 4.66E-03 ton per year. Sulfur dioxide (SO2) shall not exceed 26.93 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 17.60 lbs/hr. Volatile organic compound (VOC) emissions shall not exceed 2.02 lbs/hr.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 0% opacity from the exhaust stack. PE emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation. NOx emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 1.73 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation. SO2 emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation. CO emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation. OC emissions from fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11 OAC rule 3745-18-06	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2 b below.
	OAC rule 3745-23-06	See A.I.2.a below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rules 3745-31-13 through 20	The emissions per rolling, 12-month period shall not exceed: CO - 77.10 tpy VOC - 8.85 tpy SO2 - 75.55 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	OAC rule 3745-31-05(C)	The total, annual asphalt production rate for emissions units P003, P006, and P007, combined, shall not exceed 395,312 tons per year, as a rolling, 12-month summation. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 15.64 tpy H2S - 0.78 tpy See A.II.3 below.
	40 CFR Part 60, Subpart UU	0.60 kilogram of particulates/megagram of asphalt charged to the still (1.2 lbs/ton) 0.67 kilogram of particulates/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton) Visible particulate emissions shall not exceed 0% opacity for the exhaust gases.
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-23-06 by committing to comply with the best available technology requirements established in Permit to Install 16-02347.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 16-02347.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The total, annual asphalt processed in emissions units P003, P006 and P007, combined, shall not exceed 395,312 tons per year, based upon a rolling, 12-month summation of the asphalt processed rates. The permittee has existing asphalt production records and therefore does not need to be limited to first year monthly asphalt throughput amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall operate and maintain a continuous monitor and recorder which measures the pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

3. The permittee shall maintain monthly records which show the date(s) and time(s) when the vacuum manifold pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The permittee shall maintain monthly records of the following information:

a. the asphalt throughput rate (both with and without the use of a ferric chloride catalyst), in tons, for each month;

b. the rolling, 12-month summation of the asphalt monthly throughput rates, in tons;

c. the emission rates, in tons (for both the process and the products of combustion from the incinerator) for PE/PM-10, H2S, CO, VOC, and SO2; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, CO, VOC, and SO2 emissions rates, in tons (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. Beginning May 1, 2006, the permittee shall maintain records of combustion zone temperature data along with the 3-hour averages.

(Authority for term: 40 CFR 63.8694(c))

III. Monitoring and/or Record Keeping Requirements (continued)

7. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c). The permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

8. For each temperature monitoring device, the permittee must meet the requirements in section A.III.7 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

9. As an option to installing the CPMS specified in section A.III.7, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

III. Monitoring and/or Record Keeping Requirements (continued)

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. all exceedances of the rolling, 12-month asphalt processing rate limitation in term A.II.3; and

b. all exceedances of the rolling, 12-month emissions limitations (for both the process and the products of combustion from the incinerator).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

IV. Reporting Requirements (continued)

3. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

5. The permittee shall also submit annual reports that specify the total PE/PM-10, SO2, CO, VOC, and H2S emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirements may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

6. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

7. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

8. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term: 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity from the exhaust stack.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.b Emission Limitations:

3.57 lbs/hr of PE/PM-10
15.64 ton per year of PE/PM-10, based upon a the rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE/PM-10 limitation (3.57 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitations:

0.60 kilogram of particulates/megagram of asphalt charged to the still (1.2 lbs/ton)

0.67 kilogram of particulates/megagram of asphalt charged to the still when a catalyst is added to the still (1.3 lbs/ton)

Applicable Compliance Method:

Compliance with the kilogram/megagram emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitations:

26.93 lbs/hr of SO2
75.55 tons per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by following equation:

[(1.40 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr without ferric chloride catalyst)] + [(0.70 SO2 lb/ton of asphalt produced) x (Actual asphalt produced in tons/yr with ferric chloride catalyst)] x (1 ton/2000 lbs) = tpy SO2

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.e Emission Limitations:

17.60 lbs/hr of CO
77.10 tons/yr of CO, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (17.60 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.f Emission Limitations:

2.85 lbs/hr of NOx
12.49 tons per year of NOx

Applicable Compliance Methods:

If required, compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (2.85 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.g Emission Limitations:

2.02 lbs/hr of VOC
8.85 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (2.02 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.h Emission Limitations:

0.18 lb/hr of H2S
0.78 ton per year of H2S, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable H2S limitation (0.18 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.i Emission Limitations:

1.06E-03 lb/hr of lead
4.66E-03 ton per year of lead

Applicable Compliance Methods:

Compliance shall be demonstrated by emission testing performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable lead limitation (1.06E-03 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.j Emission Limitations:

0.17 lb/hr of PE (products of combustion from incinerator)
0.76 ton per year of PE, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling 12-month summation was developed by multiplying the short-term allowable PE limitation (0.17 lb/hr) by the maximum annual hours of operation (8,760 hours) and then dividing by 2,000 lbs per ton. Therehore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.k Emission Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)
4.33 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.99 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.l Emission Limitations:

3.68 lbs/hr of SO2 (products of combustion from incinerator)
16.11 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.68 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.m Emission Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of natural gas.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.n Emission Limitations:

1.73 lbs/hr of NOx (products of combustion from incinerator)
7.56 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the thermal incinerator by the AP-42 emission factor for the combustion of fuel oil.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.73 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.o Emission Limitations:

5.27 lbs/hr HCl
16.44 tons per year of HCl

Applicable Compliance Method:

Compliance shall be demonstrated by emission tests performed in accordance with the methods and procedures specified in Methods 1 thru 4 and 26 or 26A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable HCl limitation (5.27 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

V. Testing Requirements (continued)

1.p Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used, as follows:

$CE = [1 - (CO / CO_2) - (THC / CO_2)]$ (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used, as follows:

$THC\ DE = [(CO + CO_2) / (CO + CO_2 + THC)]$ (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO_2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration, except for total hydrocarbon/combustion efficiency testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) (including products of combustion).

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) and opacity limitation:

for opacity, Method 9 of 40 CFR Part 60, Appendix A;

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 5 and 201 of 40 CFR Part 60, Appendix A;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for NOx, Methods 1 thru 4 and 7 of 40 CFR part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A;

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A; and

for total hydrocarbon/combustion efficiency testing, the test methods specified in Table 3 of 40 CFR part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

Compliance shall be based on comparing the results of the performance tests to the sum of the allowable emission limitations for the emissions units that vent to the thermal incinerator and were in operation during the performance test.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Parting Agent Handling System (P901)

Activity Description: Unloading and transfer of parting agent (backdust)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
parting agent handling system - parting agent conveying and use equipment with two baghouses	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08, and 40 CFR Part 60, Subpart UU. 0.09 lb/hr of volatile organic compounds (VOC) (aggregate emissions from the 2 baghouses associated with P901 and P921 that vent outside the building) 0.26 lb/hr of PM10 (aggregate emissions from the 2 baghouses associated with P901 and P921 that vent outside the building)
	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-17-07(B)	See A.I.2.c below.
	OAC rule 3745-17-08	See A.I.2.b below.
	OAC rule 3745-17-11	See A.1.2.d below.
	40 CFR Part 60, Subpart UU	1% opacity for visible emissions (fugitive and stack emissions)

2. Additional Terms and Conditions

2.a The specific operations, property, and/or equipment which constitute this emissions unit are listed below:

i. parting agent use bin #1 and #2; and

ii. belt converying and transfer of parting agent to use bin #1 and #2.

2. Additional Terms and Conditions (continued)

2.b The use bin shall be enclosed using hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control the fugitive dust to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

2.c The visible particulate emission limitations based on OAC rule 3745-17-07(A) and 3745-17-07(B) are less stringent than the visible particulate emission limitations established pursuant to 40 CFR Part 60, Subpart UU.

2.d The particulate mass emission limitation based on OAC rule 3745-17-11 is less stringent than the limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the use bin and visible particulate emissions from the stacks 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for each baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

1% opacity for visible emissions
(fugitive and stack emissions)

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.b Emission Limitation:

0.09 lb/hr of VOC

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-21-10(C).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01622)

1.c Emission Limitation:

0.26 lb/hr of PM10

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing per Method 201, 40 CFR Part 51, Appendix M.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01622)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Filler Handling System #1 (P902)

Activity Description: Unloading and transfer of filler for the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mineral Filler Handling System #1 - Filler Upper Surge Bin #1, Filler Lower Surge Bun #1, and Filler Heater #1 Controlled with Dust Collectors (Serves 3-Wide Roofing Line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B) and 3745-31-05(C)(5), and 40 CFR Part 60, Subpart UU. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed: 0.30 lb/hr (Combined Stack Emissions); 0.20 lb/hr PE/PM-10 (Upper Surge Bin #1 Dust Collector Stack); and 0.10 lb/hr PE/PM-10 (Filler Heater #1 Dust Collector Stack). The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.
	OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart UU.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-08(B)	The use bins shall be adequately enclosed and vented to dust collectors.
	OAC rule 3745-31-05(C)	The PE/PM-10 emissions shall not exceed 1.23 tons per rolling, 12-month period.
	40 CFR Part 60, Subpart UU	1% opacity for visible emissions (fugitive and stack emissions)

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 8,250 hours per year, based upon a rolling, 12-month summation of the operating hours. The permittee has existing operation records and, therefore, does not need to be limited to first year monthly operating hours amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The pressure drop across each dust collector shall be maintained within the normal operating range (see section A.IV.5) while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the operating hours for each month;

b. the PE/PM-10 emissions, in tons, for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the operating hours; and

d. the rolling, 12-month summation of the PE/PM-10 emissions, in tons.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each dust collector while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each dust collector on a daily basis.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and any visible emissions from the stacks 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month operating hours limitation; and

b. all exceedances of the rolling, 12-month PE/PM-10 emissions limitations.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each dust collector did not comply with the allowable range specified above.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall submit annual reports that specify the total PE/PM-10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each dust collector.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from both the stacks serving this emissions unit and any visible fugitive emissions and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RQAMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: OAC rule 3745-77-07(C)(1), PTI 16-02347, and 40 CFR Part 60, Subpart UU)

1.b Emission Limitations:

0.30 lb/hr of PE/PM-10 (Combined Stack Emissions).
1.23 tons per year of PE/PM-10, based upon a rolling, 12-month summation

0.20 lb/hr PE/PM-10 (Upper Surge Bin #1 Dust Collector Stack)

0.10 lb/hr PE/PM-10 (Filler Heater #1 Dust Collector Stack)

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation may be demonstrated by multiplying the maximum hourly emission limitation of 0.30 lb/hr by the actual hours of operation, and then dividing by 2000 lbs/ton.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates.

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

i. for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; and
ii. for PM-10, Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Filler Handling System #2 (P904)

Activity Description: Unloading and transfer of filler for the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
mineral filler handling system - mineral filler conveying/transfer, use equipment, controlled with two baghouses	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08 and 40 CFR Part 60, Subpart UU. 0.09 lb/hr of volatile organic compounds (VOC) (stack emissions) 3.16 lbs/hr of PM10 (aggregate stack emissions from the 3 dust collectors associated with P904 and P920 that vent outside the building)
	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08, and 40 CFR Part 60, Subpart UU. 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the Roofing Line Process Dust Collector
	OAC rule 3745-17-07(A)	See A.I.2.f below.
	OAC rule 3745-17-07(B)	See A.I.2.f below.
	OAC rule 3745-17-08	See A.I.2.b through A.I.2.e below.
	OAC rule 3745-17-11	See A.I.2.g below.
	40 CFR Part 60, Subpart UU	1% opacity for visible emissions (fugitive and stack emissions)

2. Additional Terms and Conditions

2.a The specific operations, property, and/or equipment which constitute this emissions unit are listed below:

i. upper surge bin #2 and pneumatic conveying to filler upper surge bin #2;

ii. transfer to filler heater #2; and

iii. lower surge bin #2 and screw conveying to filler lower surge bin #2.

2.b The pneumatic conveying to the upper surge bin, and the upper surge bin, shall be of an enclosed design. The upper surge bin shall vent to a baghouse to control particulate emissions.

2.c The transfer of filler material to filler heater #2 shall be accomplished via an enclosed rotary valve.

2.d The screw conveying to thelower surge bin, and the lower surge bin, shall be of an enclosed design. The lower surge bin shall vent to a baghouse to control particulate emissions.

2.e The exhaust from the upper filler surge bin #2 shall exhaust horizontally through the side of the filler tower enclosure. This exhaust has been dispersion modeled as a horizontal exhaust. The exhaust from the lower surge bin #2 shall exhaust within the factory building.

2.f The visible particulate emission limitations based on OAC rule 3745-17-07(A) and 3745-17-07(B) are less stringent than the visible particulate emission limitations established pursuant to 40 CFR Part 60, Subpart UU.

2.g The particulate mass emission limitation based on OAC rule 3745-17-11 is less stringent than the particulate mass emission limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the stacks 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for each baghouse.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.09 lb/hr of VOC

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-21-10(C).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01622)

1.b Emission Limitation:

1% opacity for visible emissions (for stack and fugitive emissions)

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitation:

3.16 lbs/hr of PM10

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing per Method 201 of 40 CFR Part 51, Appendix M.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01622)

V. Testing Requirements (continued)

1.d Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the Roofing Line Process Dust Collector

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s):

i. for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; and
ii. for PM-10, Method 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1), PTI 16-01622, and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Material Surfacing Applicator #1 (P905)

Activity Description: Application of surfacing materials (i.e., granules and backdust) on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
material surfacing applicator #1 with two baghouses	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08(B). 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the Roofing Line Process Dust Collector
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	The applicator shall be adequately enclosed and vented to two baghouses.
	OAC rule 3745-17-11	15.54 lbs/hr of particulates (based on an UMRE of 163.74 lbs/hr and Curve P-1 of Figure II)

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the stacks 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for each baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the Roofing Line Process Dust Collector

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitation:

15.54 lbs/hr of particulates (based on an UMRE of 163.74 lbs/hr and Curve P-1 of Figure II)

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Coater/Coating Surge Tank #1 (P906)

Activity Description: Equipment to produce asphalt coated mat on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt Coater/Surge Tank #1 controlled with a fiber bed filter (serves 3-Wide roofing line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-13 through 3745-31-20, 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed 2.60 lbs/hr. Hydrogen sulfide (H2S) emissions shall not exceed 0.18 lb/hr. Volatile organic compound (VOC) emissions shall not exceed 4.62 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 5.51 lbs/hr. Sulfur dioxide (SO2) shall not exceed 0.17 lb/hr SO2. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions). Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.
	OAC rule 3745-17-07 OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart UU.
	OAC rule 3745-17-08	The coater shall be adequately enclosed and vented to a fiber bed filter.
	OAC rule 3745-21-07(G)(2)	Exempt, see A.II.3 below.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 14.75 tpy CO - 17.59 tpy SO2 - 0.62 tpy
	OAC rule 3745-31-05(C)	See section A.II.1 below. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 8.29 tpy H2S - 0.63 tpy
	40 CFR Part 60, Subpart UU	For saturator: 0.04 kilogram of particulates per megagram of asphalt shingle 20% opacity for the exhaust gases no visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes (40 CFR Part 60, Subpart UU is not applicable after May 1, 2006, per 40 CFR Part 63, Subpart LLLLL.)

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram emissions per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced. See A.I.2.a below. The compliance date for this rule is May 1, 2006. See sections A.III.4 through A.III.13 and A.IV.7 below.
	40 CFR Part 63, Subpart JJJJ	See Attachment 2.

2. Additional Terms and Conditions

2.a The opacity limitations established pursuant to 40 CFR Part 63, Subpart LLLLL are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production, based on rolling, 12-month summations. The permittee has existing operation records and, therefore, does not need to be limited to the first year monthly operating hours amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The pressure drop across the fiber bed filter shall be maintained within the normal operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The permittee shall only employ asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the asphalt throughput and shingle production rates, in tons, for each month;

b. the PE/PM-10, H2S, SO2, CO, and VOC emissions for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the asphalt throughput and shingle production rates, in tons; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, SO2, CO, and VOC emissions, in tons.

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

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a daily basis.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible emissions from the stack 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

4. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of both the inlet gas temperature and pressure drop (see sections A.III.5, A.III.6, and A.III.7).

(Authority for term: 40 CFR 63.8694(c)).

5. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

6. For each temperature monitoring device, the permittee must meet the requirements in section A.III.5 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

7. For each pressure measurement device, the permittee must meet the requirements of section A.III.5 and the following:

a. Locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure.

b Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

c. Check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output.

d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

8. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

9. As an option to installing the CPMS specified in section A.III.5, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and

b. all exceedances of the rolling, 12-month PE/PM-10, H2S, SO2, CO, and VOC emissions limitations.

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

2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

IV. Reporting Requirements (continued)

3. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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

4. The permittee shall also submit annual reports that specify the total PE/PM-10, H2S, SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the fiber bed filter.

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

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall included copies of all Method 9 readings that were performed.

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

7. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitations:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average

Exhaust gases from the saturator shall not exceed 20% opacity.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes.

Applicable Compliance Method:

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, 2002.

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

1.c Emission Limitations:

2.60 lbs/hr of PE/PM-10
8.29 tons per year of PE/PM-10 based upon a rolling, 12-month summation

0.04 kilogram of particulates per megagram of asphalt shingle

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

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

1.d Emission Limitations:

0.17 lb/hr of SO2
0.62 ton per year of SO2, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

V. Testing Requirements (continued)

1.e Emission Limitations:

5.51 lbs/hr of CO
17.59 tons per year of CO based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.f Emission Limitations:

4.62 lbs/hr of VOC
14.75 tons per year of VOC based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.g Emission Limitations:

0.18 lb/hr H2S
0.63 ton per year of H2S based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

V. Testing Requirements (continued)

1.h Emission Limitations:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Methods:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = the asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = particulate matter mass emission rate, kilograms per hour;

C = concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = unit conversion constant (0.06 minute-kilogram/hour-gram).

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration, except for PE/PM-10 and opacity testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowabe mass emission rate(s) for PE, PM-10, H2S, SO2, CO, opacity and VOC.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 4 of 40 CFR Part 60, Appendix A and 201 of 40 CFR Part 51, Appendix M;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A; and

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A; and

for opacity, Method 9 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Filler Mixer #2 (P907)

Activity Description: Filler mixer for the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Aggregate Filler Mixer #2 controlled with a baghouse	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08, and 40 CFR Part 63, Subpart LLLLL. 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gas (gr/dscf) from the 4-Wide Process Dust Collector
	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	The requirements of this rule also include the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), 3745-17-08, 3745-17-11, and 40 CFR Part 63, Subpart LLLLL. 1.14 lbs/hr PM-10 (this is the portion of the aggregate 10.41 lbs/hr stack emission limit that was established in PTI 16-01622 that is attributed to P907) 2.55 lbs/hr particulates (this is the portion of the aggregate 23.31 lbs/hr stack emission limit that was established in PTI 16-01622 that is attributed to P907)
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08	The filler mixer shall be of an enclosed design and shall vent to a baghouse.
	OAC rule 3745-17-11	See A.I.2.a below.
	40 CFR Part 63, Subpart LLLLL	Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 4-wide roofing line to 0.04 kilogram emissions per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced. The compliance date for this rule is May 1, 2006. See sections A.III.3 through A.III.12 and A.IV.4 below.

2. Additional Terms and Conditions

2.a The particulate emission limitation based on OAC rule 3745-17-11 is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the normal operating range (see section A.IV.5) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the baghouse 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

3. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c))

4. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

5. For each temperature monitoring device, the permittee must meet the requirements in section A.III.4 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

6. For each pressure measurement device, the permittee must meet the requirements of section A.III.4 and the following:

a. Locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure.

b Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

c. Check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output.

d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

7. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

8. As an option to installing the CPMS specified in section A.III.4, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

9. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

10. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

11. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

12. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

5. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for the baghouse.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b), and the procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

2.55 lbs/hr particulate emissions

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

1.14 lbs/hr PM-10

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing in accordance with Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

1.e Emission Limitation:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Method:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = Particulate matter mass emission rate, kilograms per hour;

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = Unit conversion constant (0.06 minute-kilogram/hour-gram.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

V. Testing Requirements (continued)

1.f Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foor of exhaust gases (gr/dscf) from the 4-wide Process Dust Collector

Applicable Compliance Method:

Compliance with the emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. The emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; and
for PM-10, Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Coater/Surge Tank #2 (P908)

Activity Description: Equipment to produce asphalt coated mat on the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt Coater/Surge Tank #2 controlled with a fiber bed filter (serves 4-Wide roofing line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-13 through 3745-31-20, 3745-31-05(C), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) shall not exceed 3.70 lbs/hr. Hydrogen sulfide (H2S) emissions shall not exceed 0.26 lb/hr. Volatile organic compound (VOC) emissions shall not exceed 6.59 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 7.86 lbs/hr. Sulfur dioxide (SO2) shall not exceed 0.25 lb/hr SO2. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions). Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.
	OAC rule 3745-17-07 OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart UU.
	OAC rule 3745-17-08	The coater shall be adequately enclosed and vented to a fiber bed filter.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 25.16 tpy CO - 30.01 tpy SO2 - 1.00 tpy
	OAC rule 3745-31-05(C)	See section A.II.1 below. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 14.15 tpy H2S - 1.03 tpy
	40 CFR Part 60, Subpart UU	For saturator: 0.04 kilogram of particulates per megagram of asphalt shingle 20% opacity for the exhaust gases no visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes (40 CFR Part 60, Subpart UU is not applicable after May 1, 2006, per 40 CFR Part 63, Subpart LLLLL.)

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram emissions per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced. See A.I.2.a below. The compliance date for this rule is May 1, 2006. See sections A.III.4 through A.III.13 and A.IV.7 below.
	OAC rule 3745-21-07(G)(2)	Exempt, see A.II.3 below.
	40 CFR Part 63, Subpart JJJJ	See Attachment 2.

2. Additional Terms and Conditions

2.a The opacity limitations established pursuant to 40 CFR Part 63, Subpart LLLLL are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production, based on rolling, 12-month summations. The permittee has existing operation records and, therefore, does not need to be limited to the first year monthly operating hours amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The pressure drop across the fiber bed filter shall be maintained within the normal operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

3. The permittee shall only employ asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the asphalt throughput and shingle production rates, in tons, for each month;

b. the PE/PM-10, H2S, SO2, CO, and VOC emissions for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the asphalt throughput and shingle production rates, in tons; and

d. the rolling, 12-month summation of the PE/PM-10, H2S, SO2, CO, and VOC emissions, in tons.

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

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a daily basis.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible emissions from the stack 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

4. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of both the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c)).

5. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

6. For each temperature monitoring device, the permittee must meet the requirements in section A.III.5 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

7. For each pressure measurement device, the permittee must meet the requirements of section A.III.5 and the following:

a. Locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure.

b Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

c. Check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output.

d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

8. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

9. As an option to installing the CPMS specified in section A.III.5, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and

b. all exceedances of the rolling, 12-month PE/PM-10, H2S, SO2, CO, and VOC emissions limitations.

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

2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

IV. Reporting Requirements (continued)

3. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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

4. The permittee shall also submit annual reports that specify the total PE/PM-10, H2S, SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the fiber bed filter.

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

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall included copies of all Method 9 readings that were performed.

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

7. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitations:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Exhaust gases from the saturator shall not exceed 20% opacity.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

No visible emissions from the saturator capture system for more than 20 percent of any period of consecutive valid observations totaling 60 minutes.

Applicable Compliance Method:

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, 2002.

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

1.c Emission Limitations:

3.70 lbs/hr of PE/PM-10
14.15 tons per year of PE/PM-10 based upon a rolling, 12-month summation

0.04 kilogram of particulates per megagram of asphalt shingle

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput limitation.

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

1.d Emission Limitations:

0.25 lb/hr of SO2
1.03 ton per year of SO2, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

V. Testing Requirements (continued)

1.e Emission Limitations:

7.86 lbs/hr of CO
30.01 tons per year of CO based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.f Emission Limitations:

6.59 lbs/hr of VOC
25.16 tons per year of VOC based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.g Emission Limitations:

0.26 lb/hr H2S
1.03 ton per year of HsS based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

V. Testing Requirements (continued)

1.h Emission Limitations:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Methods:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = the asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = particulate matter mass emission rate, kilograms per hour;

C = concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = unit conversion constant (0.06 minute-kilogram/hour-gram).

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of the permit and 6 months prior to permit expiration, except for PE/PM-10 and opacity testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowabe mass emission rate(s) for PE, PM-10, H2S, SO2, CO, opacity, and VOC.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 thru 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M;

for H2S, Methods 1 thru 4 and 15 of 40 CFR Part 60, Appendix A;

for SO2, Methods 1 thru 4 and 6 of 40 CFR Part 60, Appendix A;

for CO, Methods 1 thru 4 and 10 or 10B of 40 CFR Part 60, Appendix A;

for VOC, Methods 1 thru 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A; and

for opacity, Method 9 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Material Surfacing Applicator #2 (P909)

Activity Description: Application of surfacing materials (i.e., granules and backdust) on the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
material surfacing applicator #2 with two baghouses	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08(B). 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the process dust collectors
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	The applicator shall be adequately enclosed and vented to two baghouses.
	OAC rule 3745-17-11	See A.I.2.c below.

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

2.c The particulate emission limitation required by this applicable rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the stacks 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for each baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the process dust collectors

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cooling Section #2 (P910)

Activity Description: Cooling of asphalt coated product on the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
P910 - Cooling Section #2 (4-wide roofing line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-13 through 3745-31-20, and 3745-31-05(C). Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 7.02 lbs/hr PE/PM-10. Volatile organic compound (VOC) emissions shall not exceed 2.80 lbs/hr. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions). Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.
	OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-08(B)	The permittee shall operate the existing hood to minimize particulate emissions and emissions of fugitive dust.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 11.06 tpy
	OAC rule 3745-31-05(C)	The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 27.69 tpy See section A.II.1.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The maximum throughput and production on the non-laminated (4-wide) roofing line shall not exceed 165,325.1 tons of asphalt throughput and 797,115.0 tons of shingle production based on rolling, 12-month summations. The permittee has existing operation records and, therefore, does not need to be limited to first year monthly throughput and production amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the asphalt throughput and shingle production rates, in tons, for each month;

b. the PE/PM-10 and VOC emissions, in tons, for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the asphalt throughput and shingle production rates, in tons; and

d. the rolling, 12-month summation of PE/PM-10 and VOC emissions, in tons.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and

b. all exceedances of the rolling, 12-month PE/PM-10 and VOC emissions limitations.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. These quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall also submit annual reports that specify the total PE/PM-10 and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.c Emission Limitations:

7.02 lbs/hr PE/PM-10
27.69 tons per year of PE/PM-10 based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; and

For PM-10, Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.d Emission Limitations:

2.80 lbs/hr of VOC
11.06 tons per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cooling Section #1 (P911)

Activity Description: Cooling of asphalt coated product on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Cooling Section #1 (3-wide roofing line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-31-13 through 3745-31-20, and 3745-31-05(C). Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 4.81 lbs/hr PE/PM-10. Volatile organic compound (VOC) emissions shall not exceed 1.92 lbs/hr. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions). Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.
	OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-08(B)	The permittee shall operate the existing hood to minimize particulate emissions and emissions of fugitive dust.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 6.83 tpy
	OAC rule 3745-31-05(C)	The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 17.09 tpy See section A.II.1.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle production based on rolling, 12-month summations. The permittee has existing operation records and, therefore, does not need to be limited to first year monthly throughput and production amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the asphalt throughput and shingle production rates, in tons, for each month;

b. the PE/PM-10 and VOC emissions, in tons, for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the asphalt throughput and shingle production rates, in tons; and

d. the rolling, 12-month summation of PE/PM-10 and VOC emissions, in tons.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and

b. all exceedances of the rolling, 12-month PE/PM-10 and VOC emissions limitations.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. These quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall also submit annual reports that specify the total PE/PM-10 and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.c Emission Limitations:

4.81 lbs/hr PE/PM-10
17.09 tons per year of PE/PM-10 based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined using the following methods:

For PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A; and

For PM-10, Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.d Emission Limitations:

1.92 lbs/hr of VOC
6.83 tons per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance shall be determined using the following methods:

Methods 1 thru 4 and 18 or 25 of 40 CFR Part 60, Appendix A.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MLA System (P912)

Activity Description: Modified laminate adhesive system on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
MLA System controlled with a fiber bed filter - MLA melt tank, MSA use tank, MSA applicator pan (3-wide roofing line)	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08	Vent the emissions from the MLA system to fiber bed filter.
	OAC rule 3745-17-11	4.94 lbs/hr particulate emissions (based on process weight rate of 1.32 tph and Table I)
	40 CFR Part 63, Subpart LLLLL	Total particulate emissions from the coater, filler mixer, and sealant applicator are limited to 0.04 kg/Mg (0.08 lb/ton) of asphalt shingle or mineral-surfaced roll roofing. The compliance date for this rule is May 1, 2006. See sections A.III.3 through A.III.12 and A.IV.4 below.
	OAC rule 3745-21-07(G)(2)	Exempt, see A.II.2 below.

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The pressure drop across the fiber bed filter shall be maintained within the normal operating range (see section A.IV.5) while the emissions unit is in operation.

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

2. The permittee shall only employ asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a weekly basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

3. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c))

4. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

5. For each temperature monitoring device, the permittee must meet the requirements in section A.III.4 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

6. For each pressure measurement device, the permittee must meet the requirements of section A.III.4 and the following:

a. locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure;

b. use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range;

c. check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; and

d. conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor;

e. at least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage; and

f. at least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

7. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

8. As an option to installing the CPMS specified in section A.III.4, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

9. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

10. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

11. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

12. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

2. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

5. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for the fiber bed filter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b), and the procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

4.94 lbs/hr of particulates

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Method:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = Particulate matter mass emission rate, kilograms per hour;

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = Unit conversion constant (0.06 minute-kilogram/hour-gram.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

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

a. The emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PE, Methods 1 thru 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MSA System #1 (P913)

Activity Description: Modified sealant asphalt system on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
MSA System #1 sealant process controlled with a fiber bed filter - MSA melt tank, MSA use tank, MSA applicator pan (4-wide roofing line)	OAC rule 3745-31-05(A)(3) (PTI 16-01755)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B), 3745-17-08, and 40 CFR Part 63, Subpart LLLLL. 1% opacity as a 6-minute average (stack emissions) 1.08 lbs/day of particulates 0.084 tpy of particulates 12.06 lbs/day of organic compounds (OC) 2.14 tpy of OC 18.79 lbs/day of carbon monoxide (CO) 3.36 tpy of CO
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08	Vent emissions from MSA tanks to fiber bed filter.
	OAC rule 3745-17-11	See A.I.2.a below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	Total particulate emissions from the coater, filler mixer, and sealant applicator are limited to 0.04 kg/Mg (0.08 lb/ton) of asphalt shingle or mineral-surfaced roll roofing. The compliance date for this rule is May 1, 2006. See sections A.III.5 through A.III.14 and A.IV.4 below.
	OAC rule 3745-21-07(G)(2)	Exempt, see A.II.2 below.

2. Additional Terms and Conditions

2.a The applicable emission limitation is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The pressure drop across the fiber bed filter shall be maintained within the normal operating range (see section A.IV.6) while the emissions unit is in operation.

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

2. The permittee shall only employ asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a weekly basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall maintain the following information, on a monthly basis:

a. the company identification of the material stored in each tank;

b. the number of squares coated per month;

c. the amount of sealant applied per month, in pounds;

d. the total MSA use (calculated by multiplying the pounds of sealant applied to each square times the number of squares coated per month), in pounds;

e. the results of the monthly LEL reading for each tank;

f. the estimate of vent flow, in cfm;

g. the number of hours the emissions unit was in operation; and

h. the OC and CO mass emission rates for the entire process, in lbs/day, calculated in accordance with sections A.V.1.d and A.V.1.e.

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

4. For the purposes of calculating OC emissions from MSA use, the following documentation shall be maintained on site for each and every tank:

a. the vapor molecular weight, in lb/lb-mole;

b. the vapor pressure at the daily average liquid surface temperature, in psia;

c. the tank maximum liquid volume, in ft^3;

d. the tank diameter, in ft;

e. the maximum liquid height, in ft;

f. the vapor space volume, in ft^3; and

g. the vapor density, in lb/ft^3.

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

5. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c)).

III. Monitoring and/or Record Keeping Requirements (continued)

6. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

7. For each temperature monitoring device, the permittee must meet the requirements in section A.III.6 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

III. Monitoring and/or Record Keeping Requirements (continued)

8. For each pressure measurement device, the permittee must meet the requirements of section A.III.6 and the following:

a. Locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure.

b Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

c. Check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output.

d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

9. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

10. As an option to installing the CPMS specified in section A.III.6, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

11. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

III. Monitoring and/or Record Keeping Requirements (continued)

12. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

13. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

14. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

2. The permittee shall submit quarterly deviation (excursion) reports that include the following information:

a. an identification of each month during which the calculated average daily organic compound emissions exceeded 12.06 lbs/day, and the actual calculated average organic compound emissions for each such month; and

b. an identification of each month during which the calculated average daily carbon monoxide emissions exceeded 18.79 lbs/day, and the actual calculated average carbon monoxide emissions for each such month.

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

3. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

IV. Reporting Requirements (continued)

5. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

6. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for the fiber bed filter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.b Emission Limitation:

1% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.c Emission Limitation:

1.08 lbs/day of particulates
0.084 tpy of particulates

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation was developed by multiplying the short-term allowable PE limitation (1.08 lbs/day) by the maximum annual days of operation (365 days), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

12.06 lbs/day of OC
2.14 tpy of OC

Applicable Compliance Method:

OC emissions (lbs/day) = MSA Melt Tank (lbs/day) + MSA Applicator Pan (lbs/day) + MSA Use (lbs/day)

MSA Melt Tank and MSA Applicator Pan OC emissions are calculated using the following methodology:

OC conc (lbs/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc.) * (28.32 L/cf) * (lb/454,000 mg)

OC emissions (lbs/day) = OC Concentration (lbs/cf) * Flow * (60 min/hr) * (24 hrs/day)

where:

%LEL = Lower Explosion Limit value, measured monthly by an instrument at each tank;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion Prevention and Protection, Frank T. Bodurtha, p12, MCGraw Hill, 1980; and

Flow = Estimate of vent flow, (cfm).

The OC emissions from MSA Use for each tank (MSA Laminator tank & (4) MSA 3-tab tanks) shall be determined in accordance with AP-42, Fifth Edition (9/97), Section 7.1.3, Equations 1-2 (Standing Storage Loss) and 1-23 (Working Loss); however, these equations are modified to demonstate compliance with a daily limitation.

MSA Use emissions (lbs/day) = Standing Storage Loss + Working Loss

Ls (lbs/day) = (Vv) * (Wv) * (Ke) * (Ks)

where:

Ls = standing storage loss, lb/day;
Vv = vapor space volume, ft^3;
Wv = vapor density, lb/ft^3;
Ke = vapor space expansion factor, dimensionless; and
Ks = vented vapor saturation factor, dimensionless.

Lw (lbs/day) = (1/#days) * (0.0010) * (Mv) * (Pva) * (Q) * (Kn) * (Kp)

where:

Lw = Working Loss, lbs/day;
#days = number of days in the month;
Mv = vapor molecular weight, lb/lb-mole;
Pva = vapor pressure at daily average liquid surface temperature, psia;
Q = monthly net throughput (tank capacity [bbl] times monthly turnover rate), bbl/month; and
Kn = turnover factor, dimensionless.

V. Testing Requirements (continued)

for turnovers > 36, Kn = (180 + N) / (6N)
for turnovers < or = 36, Kn = 1

N = number of turnovers per month, dimensionless

N = (5.614Q) / (Vlx)

where:

Q = monthly net throughput, bbl/month; and
Vlx = tank maximum liquid volume, ft^3.

and

Vlx = (pi) * (D^2) * (Hlx)

where:

D = diameter, ft; and
Hlx = maximum liquid height, ft.

Kp = working loss product factor, dimensionless, 0.75 for crude oils. For all other organic liquids, Kp = 1.

The tpy emission limitation was developed by multiplying the short-term allowable OC limitation (12.06 lbs/day) by the maximum annual days of operation (365 days), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

18.79 lbs/day of CO
3.36 tpy of CO

Applicable Compliance Method:

CO emissions = MSA Melt Tank + MSA Applicator Pan + MSA Use

MSA Melt Tank, MSA Applicator Pan, and MSA Use CO emissions are calculated using the following methodology:

CO (lbs/day) = EF * X ppm * 0.028 m3/cf * Y CFM * minutes of operation * (gm/1000mg) * (lb/454gm) * (hr/60 min) * (day/24hr)

where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;

X ppm = correlation of the concentration of CO based on the LEL of asphalt = 142 * %LEL + 800 for oxidized asphalt; and

Y CFM = estimate of vent flow, cfm.

The tpy emission limitation was developed by multiplying the short-term allowable CO limitation (18.79 lbs/day) by the maximum annual days of operation (365 days), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Method:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = Particulate matter mass emission rate, kilograms per hour;

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = Unit conversion constant (0.06 minute-kilogram/hour-gram.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

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

a. The emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mat Unwind #1 (P914)

Activity Description: Unwinding of mat prior to dry looper on the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mat Unwind #1 - controlled by fabric filter	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08	The unwind area shall be vented to a fabric filter through the use of localized hoods and/or exhaust pickups.
	OAC rule 3745-17-11	2.37 lbs/hr of particulate emissions (based on process weight rate of 0.44 ton per hour and Table I)

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the normal operating range while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fabric filter on a daily basis.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

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

2. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit, within 90 days of permit issuance, documentation of the determined normal pressure drop range, in inches of water, for the fabric filter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b), and the procedures specified in OAC rule 3745-17-03(B)(1).

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

V. Testing Requirements (continued)

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

2.37 lbs/hr of particulate

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MSA System #2 (P915)

Activity Description: Modified sealant asphalt system for the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
MSA System #2 sealant process controlled with a fiber bed filter - MSA melt tank, MSA use tank, MSA applicator pan (3-wide roofing line)	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08	Vent the emissions from the MSA tanks to fiber bed filter.
	OAC rule 3745-17-11	7.08 lbs/hr particulate emissions (based on process weight rate of 2.26 tph and Table I)
	40 CFR Part 63, Subpart LLLLL	Total particulate emissions from the coater, filler mixer, and sealant applicator are limited to 0.04 kg/Mg (0.08 lb/ton) of asphalt shingle or mineral-surfaced roll roofing. The compliance date for this rule is May 1, 2006. See sections A.III.3 through A.III.12 and A.IV.4 below.
	OAC rule 3745-21-07(G)(2)	Exempt, see A.II.2 below.

2. Additional Terms and Conditions

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

2.b Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

II. Operational Restrictions

1. The pressure drop across the fiber bed filter shall be maintained within the normal operating range (see section A.IV.5) while the emissions unit is in operation.

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

2. The permittee shall only employ asphalt which is not a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a weekly basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

3. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c))

4. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

5. For each temperature monitoring device, the permittee must meet the requirements in section A.III.4 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

6. For each pressure measurement device, the permittee must meet the requirements of section A.III.4 and the following:

a. locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure;

b. use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range;

c. check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; and

d. conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor;

e. at least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage; and

f. at least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

7. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

8. As an option to installing the CPMS specified in section A.III.4, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

9. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

10. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

11. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

12. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

2. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

5. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for the fiber bed filter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b), and the procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

7.08 lbs/hr of particulates

Applicable Compliance Method:

Compliance with this mass emission limitation shall be based on stack testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Method:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = Particulate matter mass emission rate, kilograms per hour;

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 degrees C as measured by the test method specified in Table 3 to this subpart; and

K = Unit conversion constant (0.06 minute-kilogram/hour-gram.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

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

a. The emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 thru 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mat Unwind #2 (P916)

Activity Description: Unwinding of mat prior to dry looper on the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mat Unwind #2 - controlled by fabric filter	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08. 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gas (gr/dscf) from the process dust collectors
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08	The unwind area shall be vented to a fabric filter through the use of localized hoods and/or exhaust pickups.
	OAC rule 3745-17-11	See A.I.2.a below.

2. Additional Terms and Conditions

2.a The particulate emission limitation specified in this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the normal operating range while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fabric filter on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

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

2. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit, within 90 days of permit issuance, documentation of the determined normal pressure drop range, in inches of water, for the fabric filter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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, except as provided under OAC rule 3745-17-07(A)(1)(b), and the procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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 procedures specified in OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gas (gr/dscf) from the fabric filter

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Filler Mixer #1 (P917)

Activity Description: Filler mixer for the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Asphalt Filler Mixer #1 controlled with a baghouse (serves 3-Wide Roofing Line)	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B), 3745-31-13 through 3745-31-20, 3745-31-05(C), and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.05 lb/hr (stack emissions). Volatile organic compound (VOC) emissions shall not exceed 7.8 lbs/hr. Carbon monoxide (CO) emissions shall not exceed 0.33 lb/hr. The hourly emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations. Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions). Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	The filler mixer shall be adequately enclosed and vented to a baghouse.
	OAC rules 3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 24.89 tpy CO - 1.06 tpy
	OAC rule 3745-31-05(C)(5)	See A.II.1 below. The emissions per rolling, 12-month period shall not exceed: PE/PM-10 - 0.20 tpy
	40 CFR Part 63, Subpart LLLLL	Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram of particulate per megagram (kg/Mg) (0.8 lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced. The compliance date for this rule is May 1, 2006. See sections A.III.4 through A.III.13 and A.IV.7 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The maximum throughput and production on the laminated (3-wide) roofing line shall not exceed 96,911.2 tons of asphalt throughput and 492,080.4 tons of shingle productions, based on rolling, 12-month summations. The permittee has existing operation records and, therefore, does not need to be limited to first year monthly throughput and production amounts.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The pressure drop across the baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the asphalt throughput and shingle production rates, in tons, for each month;

b. the PE/PM-10, CO and VOC emissions, in tons, for each month based upon the results of the latest stack test;

c. the rolling, 12-month summation of the asphalt throughput and shingle production rates, in tons; and

d. the rolling, 12-month summation of the PE/PM-10, CO and VOC emissions, in tons.

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

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on daily basis.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and any visible emissions of fugitive dust. 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

4. Beginning May 1, 2006, the permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.

(Authority for term: 40 CFR 63.8694(c))

5. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

6. For each temperature monitoring device, the permittee must meet the requirements in section A.III.5 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

7. For each pressure measurement device, the permittee must meet the requirements of section A.III.5 and the following:

a. Locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure.

b Use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5 percent of the pressure range.

c. Check pressure tap pluggage daily. Perform an accuracy check at least quarterly or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output.

d. Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

e. At least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

f. At least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(c))

8. For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.

(Authority for term: 40 CFR Part 63.8688(d))

III. Monitoring and/or Record Keeping Requirements (continued)

9. As an option to installing the CPMS specified in section A.III.5, the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

10. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

11. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

12. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

13. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j))

IV. Reporting Requirements

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

a. all exceedances of the rolling, 12-month asphalt throughput and shingle production limitations; and

b. all exceedances of the rolling, 12-month PE/PM-10, CO and VOC emissions limitations.

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

2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

IV. Reporting Requirements (continued)

3. The quarterly deviation reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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

4. The permittee shall also submit annual reports that specify the total PE/PM-10, VOC, and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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

5. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the baghouse.

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

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from the stack serving this emissions unit or any visible emissions of fugitive dust were observed and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall include copies of all Method 9 readings that were performed.

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

7. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the information required by 40 CFR 63.8693(c). The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 10% opacity as a 6-minute average (stack emissions).

Applicable compliance method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

Visible emissions of fugitive dust shall not exceed 10% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.c Emission Limitations:

0.05 lb/hr of PE/PM-10 (stack emissions)
0.20 ton per year of PE/PM-10 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.d Emission Limitations:

0.33 lb/hr of CO
1.06 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

1.e Emission Limitations:

7.8 lbs/hr of VOC
24.89 tons per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

Compliance with the tons per year limitation can be ensured by compliance with the lbs/hr limitation and the annual throughput/production limitations based on a rolling 12-month summation of the monthly throughput/production.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

Limit total particulate emissions from the coater, coating mixer, sealant applicator, and adhesive applicator on the 3-wide roofing line to 0.04 kilogram per megagram (kg/Mg) (0.08 pound per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Methods:

To determine compliance with the particulate matter mass emission rate, use equations 1 and 2 as follows:

E = Mpm / P (Eq. 1)

where:

E = Particulate matter emission rate, kilograms of particulate matter per megagram of roofing product manufactured;

Mpm = Particulate matter mass emission rate, kilograms per hour, determined using Equation 2; and

P = The asphalt roofing product manufacturing rate during the emissions sampling period, including any material trimmed from the final product, megagram per hour.

Mpm = C * Q * K (Eq. 2)

where:

Mpm = Particulate matter mass emission rate, kilograms per hour;

C = Concentration of particulate matter on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 to this subpart;

Q = Vent gas stream flow rate (dry standard cubic meters per minute) at a temperature of 20 ?C as measured by the test method specified in Table 3 to this subpart; and

K = Unit conversion constant (0.06 minute-kilogram/hour-gram).

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e)(1))

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted wwithin 6 months after issuance of the permit and again within 6 months prior to permit expiration, except for PE/PM-10 testing which shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PE, PM-10, CO and VOC.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

for PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A;

for PM-10, Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M;

for CO, Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A; and

for VOC, Methods 1 through 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Surfacing Material System #1 (P918)

Activity Description: Unloading, transfer, and storage of headlap granules

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Surfacing Material System #1 controlled with a baghouse	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-07(B), and 3745-17-08(B). 0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the 4-wide Process Dust Collector
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible particulate emissions shall not exceed 20% opacity as a 3-minute average for fugitive emissions.
	OAC rule 3745-17-08(B)	The use bins shall be adequately enclosed and vented to a baghouse.
	OAC rule 3745-17-11	42.53 lbs/hr of particulates (based on a process weight rate of 40 tph and Table 1)

2. Additional Terms and Conditions

2.a Any material handling equipment that follows the storage silos (including transfer to use bins and the use bins) does not fall within the definition of a "mineral handling and storage facility" and is not subject to the requirements of 40 CFR Part 60, Subpart UU.

Any equipment installed prior to November 18, 1980 (including the headlap surfacing material unloading/storage and the headlap transfer system) is not subject to the requirements of 40 CFR Part 60, Subpart UU due to the provisions of 40 CFR 60.470(b), unless the equipment is modified.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the stack 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for the baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 3-minute average for fugitive emissions.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission test observations performed in accordance with the procedures specified in Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(3).

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

1.c Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gases (gr/dscf) from the 4-wide Process Dust Collector

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.d Emission Limitation:

42.53 lbs/hr of particulates (based on a process weight rate of 40 tph and Table 1)

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Filler Storage System #1 (P919)

Activity Description: Storage of filler for the laminate (3-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mineral Filler Storage System #1 - Filler Silos #1 and #2 controlled with 2 baghouses	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	Each silo shall be vented to a dedicated baghouse.
	OAC rule 3745-17-11	3.42 lbs/hr of particulate emissions (based on an UMRE of 17.08 lbs/hr and Curve P-1 of Figure II)
	40 CFR Part 60, Subpart UU	1% opacity from any mineral handling and storage emissions

2. Additional Terms and Conditions

2.a The visible emission limitation specified by this applicable rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from each baghouse 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for each baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

1% opacity from any mineral handling and storage emissions

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

3.42 lbs/hr of particulates

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Filler Storage System #2 (P920)

Activity Description: Storage of filler for the strip (4-wide) roofing line

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mineral Filler Storage System #2 - Filler Silos #3 and #4 controlled with two baghouses	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	0.09 lb/hr volatile organic compounds (VOC) (aggregate stack emissions from the 3 dust collectors associated with P904 and P920) 3.16 lbs/hr PM-10 (aggregate stack emissions from the 3 dust collectors associated with P904 and P920 that vent outside the building) The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B) and 40 CFR Part 60, Subpart UU.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	The pneumatic unloading and conveying and each storage silo shall be enclosed and vented to a dedicated baghouse.
	OAC rule 3745-17-11	See A.I.2.b below.
	40 CFR Part 60, Subpart UU	1% opacity as a 6-minute average

2. Additional Terms and Conditions

2.a The visible emission limitation specified by this applicable rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2. Additional Terms and Conditions (continued)

2.b The particulate emission limitation specified by this applicable rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from each baghouse 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and any emissions of fugitive dust and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for each baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

1% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.b Emission Limitation:

3.16 lbs/hr of PM-10

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

1.c Emission Limitation:

0.09 lb/hr VOC

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 4 and Methods 18, 25 or 25A of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-21-10(C).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Parting Agent Storage System (P921)

Activity Description: Storage of parting agent (backdust)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Parting Agent Storage System, controlled with a baghouse	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	0.09 lb/hr volatile organic compounds (VOC)(aggregate emissions from the 2 baghouses associated with P901 and P921 that vent outside the building) 0.26 lb/hr PM-10 (aggregate emissions from the 2 baghouses associated with P901 and P921 that vent outside the building) The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B) and 40 CFR Part 60, Subpart UU.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	The silo shall be enclosed and vented to a baghouse.
	OAC rule 3745-17-11	See A.I.2.b below.
	40 CFR Part 60, Subpart UU	1% opacity as a 6-minute average

2. Additional Terms and Conditions

2.a The visible emission limitation specified by this applicable rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b The particulate emission limitation specified by this applicable rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the normal operating range (see section A.IV.4) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the baghouse 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for the baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

1% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.b Emission Limitation:

0.26 lb/hr of PM-10

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

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

1.c Emission Limitation:

0.09 lb/hr VOC

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with the procedures in Methods 1 through 4 and Methods 18, 25 or 25A of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-21-10(C).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Surfacing Material System #2 (P922)

Activity Description: Unloading, transfer, and storage of prime granules

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Surfacing Material System #2 controlled with a baghouse	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	0.01 grain of particulate emissions per dry standard cubic foot of exhaust gas (gr/dscf) from the p4-wide Process Dust Collector The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B) and 40 CFR Part 60, Subpart UU.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	The use bins shall be adequately enclosed and vented to a baghouse.
	OAC rule 3745-17-11	See A.I.2.b below.
	40 CFR Part 60, Subpart UU	1% opacity from the discharge of any mineral unloading from a carrier, conveyor transfer to the storage silos from the carrier, and the storage silos themselves.
	OAC rule 3745-31-05(A)(3) (PTI 16-01622)	1.43 lbs/hr particulates

2. Additional Terms and Conditions

2.a The visible emission limitation specified by this applicable rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b The particulate emission limitation specified by this applicable rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions (continued)

2.c Any material handling equipment that follows the storage silos (including transfer to use bins and the use bins) does not fall within the definition of a "mineral handling and storage facility" and is not subject to the requirements of 40 CFR Part 60, Subpart UU.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the normal operating range (see section A.IV.4 below) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust and visible particulate emissions from the baghouse 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 location and color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust and/or stack particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure drap range, in inches of water, for the baghouse.

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

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

1% opacity from the discharge of any mineral unloading, transfer to the storage silos, and the storage silos themselves

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.b Emission Limitation:

0.01 grain of particulate emissions per dry standard cubic foot of exhaust gas (gr/dscf) from the 4-wide Process Dust Collector

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

1.c Emission Limitation:

1.43 lbs/hr particulates

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. The emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #25 (T001)

Activity Description: Asphalt storage; 245,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#25 storage tank - fixed roof, heated asphalt storage tank, 245,000 gallons	OAC rule 3745-21-09(L)	exempt (see A.II.1)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

2. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63.8693(b))

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall include copies of all Method 9 readings that were performed.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #24 (T004)

Activity Description: Asphalt storage; 245,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#24 storage tank - fixed roof asphalt storage tank, 245,000 gallons	OAC rule 3745-21-09(L)	exempt (see A.II.1)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

2. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63.8693(b))

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #23 (T005)

Activity Description: Asphalt storage; 345,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#23 storage tank - fixed roof asphalt storage tank, 345,000 gallons	OAC rule 3745-21-09(L)	exempt (see A.II.1)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

2. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63.8693(b))

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Spirits Storage Tank #61 (T006)

Activity Description: Mineral spirits storage; 100,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#61 solvent storage tank - 100,000-gallon fixed roof solvent storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-01620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(1). 0.34 tpy organic compounds (OC)
	OAC rule 3745-21-09(L)(1)	exempt (see A.II.1)

2. Additional Terms and Conditions

2.a The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in the closed position at all times except when in actual use for tank gauging or sampling.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

3. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

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

4. The permittee is not required to operate the condenser during mineral spirit unloading when the ambient temperature is less than 45 degrees F.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0.34 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #50 (T007)

Activity Description: Asphalt storage; 60,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Oxidized Asphalt Storage Tank #50 - 60,000-gallon fixed roof storage tank controlled by a JZ thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31-13 through 3745-31-20, 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year. Sulfur dioxide (SO2) emissions shall not exceed 0.21 lb/hr and 0.94 ton per year. Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr and 0.07 ton per year. Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr and 0.21 ton per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. PE emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation. NOx emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation. SO2 emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		CO emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation. OC emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.06 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.
	OAC rule 3745-21-09(L)	See A.II.1 below.
	OAC rules 3745-3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: CO - 0.07 tpy VOC - 0.21 tpy SO2 - 0.94 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	40 CFR Part 60, Subpart Kb	See A.I.2.a below.
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
	40 CFR Part 63, Subpart LLLLL	Exempt per 40 CFR 63.8681(c) since subject to 40 CFR Part 60, Subpart Kb.

2. Additional Terms and Conditions

2.a The permittee shall install a closed vent system and control device meeting the following specifications:

i. the closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as specified by an instrument reading of less than 500 ppm above background and visual inspections as determined in paragraph 60.485(b); and

ii. the control device shall be designed and operated to reduce inlet VOC emissions by 95% or greater.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.

(Authority for term: PTI 16-02347 and OAC rules 3745-21-09(L) and 3745-77-07(A)(1))

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range (see section A.IV.8) while the emissions unit is in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required by section A.III.2, for at least 2 years. The records required by section A.III.2 shall be kept for the life of the source.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissiosn unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. The permittee shall operate and maintain a continuous monitor and recorder that measure the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

6. The permittee shall maintain monthly records that show the date(s) and time(s) when the vacuum manifold static pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall maintain records of the following:

a. the types of petroleum liquids stored in the tank;

b. the period of storage; and

c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.

(Authority for term: PTI 16-02347 and OAC rules 3745-21-09(L) and 3745-77-07(C)(1))

8. The permittee shall maintain monthly records of the following information for this emissions unit:

a. the CO, VOC, and SO2 emissions, in tons, from both the tank and products of combustion of the incinerator for each month based upon the results of the latest stack test; and

b. the rolling, 12-month summation of CO, VOC, and SO2 emissions in tons from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. Each report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month CO, VOC, and SO2 emission limitations from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-02347 and OAC rules 3745-21-09(L) and 3745-77-07(A)(1))

6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Director (the Akron RAQMD) that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall also submit annual reports that specify the total SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions and (c) provide a summary of all Method 9 readings taken. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.b Emission Limitations:

0.01 lb/hr of PE/PM-10
0.06 ton per year of PE/PM-10

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitations:

0.21 lb/hr of SO2
0.94 ton per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Method:

SO2 emissions (tpy) = [Uncontrolled H2S emissions (tpy) - Controlled H2S emissions (tpy)] * 1.88

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

V. Testing Requirements (continued)

1.d Emission Limitation:

0.05 lb/hr of VOC
0.21 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.e Emission Limitations:

0.006 lb/hr of H_2S
0.03 ton per year of H_2S

Applicable Compliance Method:

Uncontrolled H_2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H_2S;
C = pollutant concentration (ppm) from correlation of the concentration of H_2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H_2S emissions (tpy) = H_2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.f Emission Limitations:

0.02 lb/hr of CO
0.07 ton per year of CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.g Emission Limitations:

0.15 lb/hr of PE (products of combustion from incinerator)
0.64 ton per year of PE based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 5 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PE limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.h Emission Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.84 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.i Emission Limitation:

3.13 lbs/hr of SO2 (products of combustion from incinerator)
13.69 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 6 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.13 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.j Emission Limitation:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 18 or 25/25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.k Emission Limitations:

1.47 lbs/hr NOx (products of combustion from incinerator)
6.43 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.47 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #52 (T008)

Activity Description: Asphalt storage; 30,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
storage tank #52 - 30,000-gallon asphalt storage tank controlled with a thermal incinerator	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on a process weight rate of 134.06 tph and Table I)
	OAC rule 3745-21-09(L)	exempt (see A.I.2.b)
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The visible particulate emission limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature established during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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 and also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted within 6 months after issuance of the permit and within 6 months prior to permit expiration;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1)) and 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #53 (T009)

Activity Description: Asphalt storage; 60,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
storage tank #53 - 60,000-gallon, heated asphalt storage tank controlled with a thermal incinerator	OAC rule 3745-17-07(A)	The following visible particulate emission limitation from OAC rule 3745-17-07(A) will become effective on May 1, 2006 when 40 CFR Part 60, Subpart UU is replaced by 40 CFR Part 63, Subpart LLLLL: Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule. See section A.I.2.a below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on a process weight rate of 134.06 tph and Table I)
	OAC rule 3745-21-09(L)	See section A.I.2.b below.
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5%. The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The visible particulate emission limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

When 40 CFR Part 63, Subpart LLLLL becomes an applicable rule on May 1, 2006, the visible particulate emission limitation required by OAC rule 3745-17-07(A) becomes effective.

2.b The permittee shall vent emissions from the fixed roof tank to a thermal incinerator.

2.c The terms "combustion temperature" and "combustion zone temperature" have identical definitions. "Combustion zone temperature" has been used in instances that the applicable MACT citation is being cited.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature established during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emissions test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(3) and 3745-77-07(C)(1))

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

4. Beginning May 1, 2006, the permittee shall maintain records of the combustion zone temperature data along with the 3-hour averages of the combustion zone temperature.

(Authority for term: 40 CFR 63.8694(c))

5. By May 1, 2006, the permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:

a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;

b. to determine the 3-hour average, the permittee must:

i. have a minimum of four successive cycles of operation to have a valid hour of data;

ii. have valid data from at least three of four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and

iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods); and

c. the permittee must record the results of each inspection, calibration, and validation check.

(Authority for term: 40 CFR 63.8688(a))

III. Monitoring and/or Record Keeping Requirements (continued)

6. For each temperature monitoring device, the permittee must meet the requirements in section A.III.5 and the following:

a. locate the temperature sensor in a position that provides a representative temperature;

b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees C or 1.0 percent of the temperature value, whichever is larger;

c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees F;

d. perform an accuracy check at least semiannually or following an operating parameter deviation:

i. according to the procedures in the manufacturer's documentation; or

ii. by comparing the sensor output to redundant sensor output; or

iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or

iv. by comparing the sensor output to the output from a temperature simulator; and

e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and

f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.

(Authority for term: 40 CFR Part 63.8688(b))

7. As an option to installing the CPMS specified in section A.III.5, the permittee may install a continuous emission monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in section 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.

(Authority for term: 40 CFR Part 63.8688(f))

8. For each monitoring system required in this section, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and

c. performance evaluation procedures and acceptance criteria (e.g., calibrations).

(Authority for term: 40 CFR Part 63.8688(g))

III. Monitoring and/or Record Keeping Requirements (continued)

9. The site-specific monitoring plan must also address the following:

a. ongoing operation and maintenance procedures in accordance with the general requirements of sections 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);

b. ongoing data quality assurance procedures in accordance with the general requirements of section 63.8(d); and

c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 63.10(c), (e)(1), and (e)(2)(i).

(Authority for term: 40 CFR Part 63.8688(h))

10. The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(i))

11. The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

(Authority for term: 40 CFR 63.8688(j)).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L)(4) and 3745-77-07(C)(1))

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions and (c) include copies of all Method 9 readings that were performed. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

IV. Reporting Requirements (continued)

5. Beginning May 1, 2006, the permittee shall submit compliance reports that contain the following information:

(a) company name and address;

(b) statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;

(c) date of report and beginning and ending dates of the reporting period;

(d) if you had a startup, shutdown or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in 63.10(d)(5)(i);

(e) if there are no deviations from any emission limitations (emission limit, operating limit, opacity limit, and visible emission limit) that apply to you, a statement that there were no deviations from the emission limitations during the reporting period; and

(f) if there were no periods during which the CPMS, CEMS, or COMS was out-of-control as specified in 63.8(c)(7), a statement that there were no periods during which the CPMS, CEMS, or COMS was out-of-control during the reporting period.

The reports shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(Authority for term 40 CFR 63.8693(b)(3) & (b)(4))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

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

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

Either reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen; or route the emissions to a combustion device achieving a combustion efficiency of 99.5 percent.

Applicable Compliance Method:

To determine compliance with the total hydrocarbon percent reduction standard, use Equations 3 and 4 of this section as follows:

RE = [(Mthci - Mthco) / (Mthci)] * 100 (Eq. 3)

where:

RE = Emission reduction efficiency, percent;

Mthci = Mass flow rate of total hydrocarbons entering the control device, kilograms per hour, determined using Equation 4; and

Mthco = Mass flow rate of total hydrocarbons exiting the control device, kilograms per hour, determined using Equation 4.

Mthc = C * Q * K (Eq. 4)

where:

Mthc = Total hydrocarbon emission rate, kilograms per hour;

C = Concentration of total hydrocarbons on a dry basis, parts per million by volume (ppmv), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas stream flow rate (dscmm) at a temperature of 20 degrees C as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

K = Unit conversion constant (3.00E-05) (ppmv)^-1 (gram-mole/standard cubic meter) (kilogram/gram) (minutes/hour)), where standard temperature for gram-mole/standard cubic meter is 20 degrees C.

V. Testing Requirements (continued)

To determine compliance with the combustion efficiency standard, Equation 5 of this section must be used as follows:

CE = [1 - (CO / CO2) - (THC / CO2)] (Eq. 5)

where:

CE = Combustion efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL; and

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

To determine compliance with the total hydrocarbon destruction efficiency standard for a combustion device that does not use auxiliary fuel, Equation 6 of this section must be used as follows:

THC DE = [(CO + CO2) / (CO + CO2 + THC)] (Eq. 6)

where:

THC DE = THC destruction efficiency, percent;

CO = Carbon monoxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

CO2 = Carbon dioxide concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

THC = Total hydrocarbon concentration at the combustion device outlet, parts per million by volume (dry), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8687(e))

1.c Emission Limitation:

54.27 lbs/hr particulate emissions
(based on a process weight rate of 134.06 tph and Table I)

Applicable Compliance Method:

Compliance shall be determined based upon a stack test performed in accordance with the procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

a. The emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) (including products of combustion).

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) :

for total hydrocarbon/combustion efficiency, the test methods included in Table 3 of 40 CFR Part 63, Subpart LLLLL.

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

d. 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 Akron RAQMD.

All performance testing (except for PE and total hydrocarbon/combustion efficiency testing) on P003 shall be completed while P004 and P005 are not venting to the thermal incinerator and compliance shall be based on comparing the results of the performance tests to the allowable emission limits for P003.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Spirits Storage Tank #60 (T010)

Activity Description: Mineral spirits storage; 28,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#60 solvent storage tank - 28,600-gallon fixed roof solvent storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2). 0.20 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(2)	exempt (see A.I.2.a)

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

II. Operational Restrictions

1. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-01620)

2. The permittee is not required to operate the condenser during mineral spirit unloading when the ambient temperature is less than 45 degrees F.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0.20 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01620)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Asphalt Storage Tank #62 (T011)

Activity Description: Cutback asphalt blending, cooling, and storage; 100,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#62 cutback storage tank - 100,000-gallon fixed roof asphalt cutback storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(1). 0.66 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(1)	exempt (see A.II.1)

2. Additional Terms and Conditions

2.a The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

2.b The permittee shall only store cutback asphalts in this emissions unit.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: PTI 16-01620, OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in the closed position at all times except when in actual use for tank gauging or sampling.

(Authority for term: PTI 16-01620, OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

3. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

(Authority for term: PTI 16-01620 and OAC rule 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: PTI 16-01620, OAC rules 3745-21-09(L)(3) and 3745-77-07(A)(1))

2. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-01620, OAC rules 3745-21-09(L)(4) and 3745-77-07(A)(1))

2. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.I.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0.66 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Asphalt Storage Tank #65 (T012)

Activity Description: Cutback asphalt blending, cooling, and storage; 28,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#65 asphalt cutback storage tank - 28,600-gallon fixed roof asphalt cutback storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(1). 1.79 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(1)	exempt (see A.I.2.c)

2. Additional Terms and Conditions

2.a The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

2.b The permittee shall only store cutback asphalts in this emissions unit.

2.c In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in the closed position at all times except when in actual use for tank gauging or sampling.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(3) and 3745-77-07(A)(1))

2. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.I.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

1.79 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Asphalt Storage Tank #66 (T013)

Activity Description: Cutback asphalt blending, cooling, and storage; 28,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#66 asphalt cutback storage tank - 28,600-gallon fixed roof asphalt cutback storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(1). 1.13 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(1)	exempt (see A.I.2.c)

2. Additional Terms and Conditions

2.a The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

2.b The permittee shall only store cutback asphalts in this emissions unit.

2.c In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in the closed position at all times except when in actual use for tank gauging or sampling.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(3) and 3745-77-07(A)(1))

2. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.I.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

1.13 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #26 (T014)

Activity Description: Asphalt storage; 29,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#26 storage tank - 29,000-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #27 (T015)

Activity Description: Asphalt storage; 29,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#27 storage tank - 29,000-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #30 (T016)

Activity Description: Asphalt storage; 18,500 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#30 storage tank - 18,500-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #31 (T017)

Activity Description: Asphalt storage; 18,500 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#31 storage tank - 18,500-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #40 (T018)

Activity Description: Asphalt storage; 18,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#40 storage tank - 18,000-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #41 (T019)

Activity Description: Asphalt storage; 18,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#41 storage tank - 18,000-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #42 (T020)

Activity Description: Asphalt storage; 18,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#42 storage tank - 18,000-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #32 (T021)

Activity Description: Asphalt storage; 18,500 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#32 storage tank - 18,500-gallon fixed roof asphalt storage tank	OAC rule 3745-21-09(L)	exempt (see A.I.2.a)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

This requirement shall not take effect until May 1, 2006 which is the compliance date for 40 CFR Part 63, Subpart LLLL.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 1 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Asphalt Storage Tank #64 (T022)

Activity Description: Cutback asphalt blending, cooling, and storage; 28,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#64 asphalt cutback storage tank - 28,600-gallon fixed roof asphalt cutback storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2). 2.38 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(2)	exempt (see A.I.2.a)

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water cooled vapor condenser.

II. Operational Restrictions

1. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

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

2. The permittee shall only store cutback asphalts in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.I.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

2.38 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cutback Asphalt Storage Tank #63 (T023)

Activity Description: Cutback asphalt blending, cooling, and storage; 28,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
#63 asphalt cutback storage tank - 28,600-gallon fixed roof asphalt cutback storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-1620)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2) and 40 CFR Part 60, Subpart Kb. 2.80 tpy of organic compounds (OC)
	OAC rule 3745-21-09(L)(2)	exempt (see A.I.2.a)
	40 CFR Part 60, Subpart Kb	exempt (see A.2.c)

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a water-cooled vapor condenser.

2.c This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

(Authority for term: PTI 16-01620, and OAC rule 3745-77-07(A)(1))

The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a maximum true vapor pressure greater than 2.17 pounds per square inch absolute (15.0 kPa).

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-01620)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor and record the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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

2. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

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

IV. Reporting Requirements

1. The permittee shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds 15.0 kPa.

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

2. The permittee shall submit quarterly outlet water temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser did not comply with the temperature requirements specified above.

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

3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

2.80 tpy of OC

Applicable Compliance Method:

OC emissions from the storage tank shall be determined using the most recent version USEPA's "Tanks Program" or AP-42 emission factors for working and breathing loss calculations.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01620)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #28 (T026)

Activity Description: Asphalt storage; 29,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
29,000-gallon, heated asphalt storage tank - tank #28 controlled with a thermal incinerator	OAC rule 3745-21-09(L)(2)	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.1.2.c below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on a process weight rate of 134.06 tph and Table I)
	40 CFR Part 60, Subpart UU	See A.I.2.b below. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.
	40 CFR Part 60, Subpart Kb	Exempt (see A.I.2.d)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b Visible emissions to the atmosphere shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning. The control device shall not be bypassed during this 15-minute period.

2. Additional Terms and Conditions (continued)

2.c The visible particulate emission limitation based on OAC rule 3745-17-07 is less stringent than the visible particulate emission limitations established pursuant to 40 CFR Part 60, Subpart UU and 40 CFR Part 63, Subpart LLLLL.

2.d This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall maintain a record showing the dimensions of this vessel and an analysis showing the capacity. This record shall be kept for the life of the emissions unit.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

V. Testing Requirements

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.b Emission Limitation:

54.27 lbs/hr particulate emissions
(based on a process weight rate of 134.06 tph and Table I)

Applicable Compliance Method:

Compliance shall be determined based upon a stack test performed in accordance with the procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

V. Testing Requirements (continued)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #29 (T027)

Activity Description: Asphalt storage; 100,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
storage tank #29 - 100,000-gallon asphalt storage tank controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-600)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A) and 3745-21-09(L) and the applicable portions of 40 CFR Part 60, Subparts Kb and UU. Particulate emissions (PE) shall not exceed 0.10 tons per year. Sulfur dioxide (SO2) emissions shall not exceed 0.02 tons per year. Organic compound (OC) emissions shall not exceed 0.35 tons per year. Nitrogen oxide (NOx) emissions shall not exceed 3.5 tons per year. Carbon monoxide emissions shall not exceed 0.7 tons per year.
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on a process weight rate of 134.06 tph and Table I)
	OAC rule 3745-21-09(L)	exempt (see A.II.2)
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 60, Subpart Kb	95% control efficiency for VOC

2. Additional Terms and Conditions

2.a The visible particulate emission limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b The emissions unit shall be equipped with a submerged fill pipe.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

2. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(3) and 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L)(4) and 3745-77-07(C)(1))

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall include copies of all Method 9 readings that were performed.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

95% control efficiency for VOC

Applicable Compliance Method:

Compliance with the control efficiency limitation for VOC shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

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

a. The emission testing shall be conducted within 6 months after permit issuance.

b. The emission testing shall be conducted to demonstrate compliance with the control efficiency limitation for VOC. The test method(s) which must be employed to demonstrate compliance with the control efficiency limitation are specified below.

c. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #44 (T029)

Activity Description: Asphalt storage; 400,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
storage tank #44 - 400,000-gallon asphalt storage tank controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-1595)	The requirements of this rule also include compliance with OAC rule 3745-17-11, OAC rule 3745-21-09(L), 40 CFR Part 60, Subpart UU, and 40 CFR Part 60, Subpart Kb. 0.22 lb/hr and 0.96 tons per year of PM10 2.0 lbs/hr and 8.76 tons per year of volatile organic compounds (VOC) 0.5 lb/hr and 2.19 tons per year of nitrogen oxides (NOx) 1.75 lbs/hr and 7.67 tons per year of carbon monoxide (CO)
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on process weight rate of 134.06 tph and Table II)
	OAC rule 3745-21-09(L)	exempt (see A.II.1)
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
	40 CFR Part 60, Subpart Kb	95% control efficiency for VOC

2. Additional Terms and Conditions

2.a The visible particulate emission limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b The emissions unit shall be equipped with a submerged fill pipe.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) of OAC rule 3745-21-09.

(Authority for term: OAC rules 3745-21-09(L)(1) and 3745-77-07(A)(1))

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rules 3745-21-09(L)(3) and 3745-77-07(C)(1))

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rules 3745-21-09(L)(4) and 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

3. These deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall contain copies of all Method 9 readings that were taken.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

95% control efficiency for VOC

Applicable Compliance Method:

Compliance with the control efficiency limitation for VOC shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.c Emission Limitation:

0.22 lb/hr and 0.96 tpy of PM10

Applicable Compliance Method:

Compliance with this mass emission limitation shall be demonstrated based on the requirements specified in Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PM10 limitation (0.22 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

1.d Emission Limitation:

2.0 lbs/hr and 8.76 tpy of VOC

Applicable Compliance Method:

Compliance with this mass emission limitation shall be demonstrated based on the requirements specified in Methods 1 through 4 and Method 25 or 25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (2.0 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

1.e Emission Limitation:

0.5 lb/hr and 2.19 tpy of NOx

Applicable Compliance Method:

Compliance with this mass emission limitation shall be demonstrated based on the requirements specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (0.5 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

1.75 lbs/hr and 7.67 tpy of CO

Applicable Compliance Method:

Compliance with this mass emission limitation shall be demonstrated based on the requirements specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (1.75 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

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

a. The emission testing shall be conducted within 6 months after permit issuance.

b. The emission testing shall be conducted to demonstrate compliance with the control efficiency limitation for VOC. The test method(s) which must be employed to demonstrate compliance with the control efficiency limitation are specified below.

c. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #36 (T030)

Activity Description: Asphalt storage; 100,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coating storage tank #36 - 100,000-gallon fixed roof asphalt storage tank/coating tank controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-1622)	The requirements of this rule also include the requirements of OAC rule 3745-17-11, OAC rule 3745-21-09(L), 40 CFR Part 60, Subpart Kb, and 40 CFR Part 60, Subpart UU. 1.51 lbs/hr and 6.61 tpy of sulfur dioxide (SO2) 0.32 lb/hr and 1.40 tpy of carbon monoxide (CO) 0.40 lb/hr and 1.75 tpy of volatile organic compounds (VOC) 0.11 lb/hr and 0.48 tpy of particulates (PM10)
	OAC rule 3745-21-09(L)(1)(a)(ii)	See A.I.2.a below.
	40 CFR Part 60, Subpart Kb	See A.I.2.b below.
	40 CFR Part 60, Subpart UU	See A.I.2.c below.
	OAC rule 3745-17-07(A)	See A.I.2.d below.
	OAC rule 3745-17-11	54.27 lbs/hr particulate emissions (based on a process weight rate of 134.06 tph and Table I)

2. Additional Terms and Conditions

2.a The emissions unit shall be equipped with a submerged fill pipe and shall be vented to a fume incinerator to control asphalt fumes.

2. Additional Terms and Conditions (continued)

2.b The permittee shall employ a closed vent system and control device meeting the following specifications:

i. The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in 40 CFR Part 60, Subpart VV Section 60.485(b).

ii. The control device shall be designed and operated to reduce inlet VOC emissions by 95 percent or greater.

2.c Visible emissions to the atmosphere shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning. The control device shall not be bypassed during this 15-minute period.

2.d The visible particulate emission limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

2. The permittee of each source that is equipped with a closed vent system and control device as required in Section 60.112b (a)(3) or (b)(2) of 40 CFR Part 60 (other than a flare) is exempt from Section 60.8 of the General Provisions and shall meet the following requirements:

a. Submit for approval by the Administrator as an attachment to the notification required by Section 60.7(a)(1) of 40 CFR Part 60 or, if the facility is exempt from Section 60.7(a)(1) of 40 CFR Part 60, as an attachment to the notification required by Section 60.7(a)(2) of 40 CFR Part 60, an operating plan containing the information listed below.

i. Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions. This documentation is to include a description of the gas stream which enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapors, gases, or liquids other than fuels from sources that are not designated sources under this subpart, the efficiency demonstration is to include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of 0.75 second and a minimum temperature of 816 degrees Celsius is used to meet the 95 percent requirement, documentation that those conditions will exist is sufficient to meet the requirements of this paragraph.

ii. A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used for selection of that parameter (or parameters).

b. Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph (a) of this section, unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies.

(Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 60 Subpart Kb)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the emissions unit.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period and shall contain copies of all Method 9 readings that were taken.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the atmosphere shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9, 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.

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

1.b Emission Limitation:

95% control efficiency for VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the requirements specified in OAC rule 3745-21-10.

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

1.c Emission Limitation:

1.51 lbs/hr and 6.61 tpy of SO2

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission tests performed in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (1.51lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

1.d Emission Limitation:

0.32 lb/hr and 1.40 tpy of CO

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission tests performed in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.32 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

0.4 lb/hr and 1.75 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission tests performed in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25/25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.40 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

1.f Emission Limitation:

0.11 lb/hr and 0.48 tpy of PM10

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission tests performed in accordance with the methods and procedures specified in Methods 1 through 4 of 40 CFR Part 60, Appendix A and Method 201 of 40 CFR Part 51, Appendix M.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable PM10 limitation (0.11 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #51 (T031)

Activity Description: Asphalt storage; 29,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
29,600-gallon asphalt storage tank - tank #51 controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-1825)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2), 40 CFR Part 60, Subpart UU, 40 CFR Part 60, Subpart Kb, and 40 CFR Part 63, Subpart LLLLL. 2.01 tpy of sulfur dioxide (SO2) 0.05 tpy of carbon monoxide (CO) 1.0 tpy of organic compounds (OC) 0.3 tpy of particulates
	OAC rule 3745-21-09(L)(2)	See A.I.2.a below.
	40 CFR Part 60, Subpart UU	See A.I.2.b below. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.
	40 CFR Part 60, Subpart Kb	Exempt (see A.I.2.d below)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b Visible emissions to the atmosphere shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning. The control device shall not be bypassed during this 15-minute period.

2.c The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a fume incinerator to control asphalt fumes.

2.d This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

2. The permittee shall maintain a record showing the dimensions of this vessel and an analysis showing the capacity. This record shall be kept for the life of the emissions unit.

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

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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 perform also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the atmosphere shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for cleaning.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

2.01 tpy of SO2

Applicable Compliance Method:

Compliance with the SO2 emission limitation shall be determined as specified in the document entitled "Asphalt Tank with Fume Incinerator Calculations" submitted in the permit to install application number 16-1825.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-1825)

1.c Emission Limitation:

0.05 tpy of CO

Applicable Compliance Method:

Compliance with the CO emission limitation shall be determined as specified in the document entitled "Asphalt Tank with Fume Incinerator Calculations" submitted in the permit to install application number 16-1825.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-1825)

1.d Emission Limitation:

1.0 tpy of OC

Applicable Compliance Method:

Compliance with the OC emission limitation shall be determined as specified in the document entitled "Asphalt Tank with Fume Incinerator Calculations" submitted in the permit to install application number 16-1825.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-1825)

1.e Emission Limitation:

0.3 tpy of particulates

Applicable Compliance Method:

Compliance with the particulate matter emission limitation shall be determined as specified in the document entitled "Asphalt Tank with Fume Incinerator Calculations" submitted in the permit to install application number 16-1825.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-1825)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation): Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #59 (T032)

Activity Description: Cutback asphalt blending, cooling, and storage; 29,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
29,600-gallon oxidized asphalt storage/mixing tank - tank #59 controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-01952)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2), 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. 0.60 tpy volatile organic compounds (VOC) 0.17 tpy particulate emissions (PE) 0.49 tpy carbon monoxide (CO) 0.07 tpy hydrogen sulfide (H2S) 2.65 tpy sulfur dioxide (SO2)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.
	OAC rule 3745-21-09(L)(2)	exempt See A.I.2.a below.
	40 CFR Part 60, Subpart Kb	exempt See A.I.2.c below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 60, Subpart UU	No permittee shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15 minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a condenser.

2.c This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

2. The permittee shall only store oxidized asphalt in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

3. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

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

4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

IV. Reporting Requirements (continued)

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.b Emission Limitation:

0.60 tpy VOC

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.c Emission Limitation:

0.17 tpy particulates

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.d Emission Limitation:

0.49 tpy CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

0.07 tpy H_2S

Applicable Compliance Method:

Uncontrolled H_2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H_2S;
C = pollutant concentration (ppm) from correlation of the concentration of H_2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H_2S emissions (tpy) = H_2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.f Emission Limitation:

2.65 tpy SO_2

Applicable Compliance Method:

SO_2 emissions (tpy) = [Uncontrolled H_2S emissions (tpy) - Controlled H_2S emissions (tpy)] * 1.88

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #67 (T033)

Activity Description: Cutback asphalt blending, cooling, and storage; 29,600 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
29,600-gallon oxidized asphalt storage/mixing tank - tank #67 controlled with a thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-01952)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(2), 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. 0.60 tpy volatile organic compounds (VOC) 0.17 tpy particulate emissions (PE) 0.49 tpy carbon monoxide (CO) 0.07 tpy hydrogen sulfide (H2S) 2.65 tpy sulfur dioxide (SO2)
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.
	OAC rule 3745-21-09(L)(2)	exempt See A.I.2.a below.
	40 CFR Part 60, Subpart Kb	exempt See A.I.2.c below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 60, Subpart UU	No permittee shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15 minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

2.b The fixed roof storage tank shall be equipped with a submerged fill pipe and shall be vented to a condenser.

2.c This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

2. The permittee shall only store oxidized asphalt in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source.

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

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

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

3. The permittee shall maintain records of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

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

4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

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

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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

3. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

IV. Reporting Requirements (continued)

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible particulate emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

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

1.b Emission Limitation:

0.60 tpy VOC

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.c Emission Limitation:

0.17 tpy particulates

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.d Emission Limitation:

0.49 tpy CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

0.07 tpy H2S

Applicable Compliance Method:

Uncontrolled H2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H2S;
C = pollutant concentration (ppm) from correlation of the concentration of H2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H2S emissions (tpy) = H2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.f Emission Limitation:

2.65 tpy SO2

Applicable Compliance Method:

SO2 emissions (tpy) = [Uncontrolled H2S emissions (tpy) - Controlled H2S emissions (tpy)] * 1.88

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

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #45 (T034)

Activity Description: Asphalt storage; 1,700,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
1,700,000-gallon fixed roof storage tank with a fiber bed filter as control equipment	OAC rule 3745-31-05(A)(3) (PTI 16-01935)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11, OAC rule 3745-21-09(L)(3), 40 CFR Part 60, Subpart UU, 40 CFR Part 60, Subpart Kb, and 40 CFR Part 63, Subpart LLLLL. 0.34 ton of particulate emissions (PE) per year 0.55 ton of carbon monoxide (CO) per year 11.95 tons of volatile organic compounds (VOC) per year
	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11	54.46 lbs/hr particulate emissions (based on a process weight rate of 136.58 tph and Table I)
	OAC rule 3745-21-09(L)(3)	Exempt, vapor pressure less than 1.52 psia

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 60, Subpart UU	No permittee shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15 minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.
	40 CFR Part 60, Subpart Kb	exempt See A.I.2.b below.
	40 CFR Part 63, Subpart LLLLL	0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned The compliance date for this rule is May 1, 2006.

2. Additional Terms and Conditions

2.a The visible particulate emission limitation based on OAC rule 3745-17-07(A) is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart UU.

2.b This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.51 psia).

II. Operational Restrictions

1. The pressure drop across the fiber bed filter shall be maintained within the normal operating range (see section A.IV.7) while the emissions unit is in operation.

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the following information.

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-21-09(L)(3))

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fiber bed filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the fiber bed filter on a daily basis.

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

5. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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

IV. Reporting Requirements

1. If the permittee places, stores, or holds in the fixed roof tank any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute, and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-21-09(L)(4))

2. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fiber bed filter did not comply with the allowable range specified above.

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

3. The permittee shall notify the Director (the Akron RAQMD) within 30 days when the maximum true vapor pressure of the liquid equals or exceeds 5.2 kPa.

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

4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

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

6. The permittee shall submit semiannual compliance reports that specify any deviations from the opacity limitation. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: 40 CFR Part 63.8693(b))

IV. Reporting Requirements (continued)

7. The permittee shall submit within 90 days of issuance of the Title V operating permit, documentation of the determined normal pressure range, in inches of water, for the fiber bed filter.

V. Testing Requirements

1. Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below:

1.a For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

1.b For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

i. Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference - see 40 CFR Section 60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

ii. The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

1.c For other liquids, the vapor pressure:

i. may be obtained from standard reference texts; or

ii. determined by ASTM Method D2879-83 (incorporated by reference - see 40 CFR Section 60.17); or

iii. measured by an appropriate method approved by the Administrator; or

iv. calculated by an appropriate method approved by the Administrator.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01935)

2. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

2.a Emission Limitation:

0% opacity for exhaust gases, except for one consecutive 15-minute period in any 24-hour period when the storage tank transfer lines are being cleaned

Applicable Compliance Method:

Compliance with the visible emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.3.

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

V. Testing Requirements (continued)

2.b Emission Limitation:

0.34 ton of PM per year

Applicable Compliance Method:

Compliance with the particulate matter emission limitation shall be determined as specified in the document entitled "Asphalt Tank 45 Calculations" submitted with the permit to install application number 16-01935.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01935)

2.c Emission Limitation:

0.55 ton of CO per year

Applicable Compliance Method:

Compliance with the carbon monoxide emission limitation shall be determined as specified in the document entitled "Asphalt Tank 45 Calculations" submitted with the permit to install application number 16-01935.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01935)

2.d Emission Limitation:

11.95 tons of VOC per year

Applicable Compliance Method:

Compliance with the volatile organic compounds emission limitation shall be determined as specified in the document entitled "Asphalt Tank 45 Calculations" submitted with the permit to install application number 16-01935.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-01935)

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

a. the emission testing shall be conducted no later than 180 days after the compliance date for Subpart LLLLL;

b. the emission testing shall be conducted to demonstrate compliance with the opacity limitation;

c. the following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR Part 60, Appendix A; and

d. 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 Akron RAQMD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: 40 CFR 63.8689(c))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #46 (T035)

Activity Description: Asphalt storage; 1,700,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Flux Asphalt Storage Tank #46 - 1,700,000-gallon fixed roof, heated storage tank controlled by a PCC thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31-13 through 3745-31-20, 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.03 lb/hr and 0.12 ton per year. Sulfur dioxide (SO2) emissions shall not exceed 0.09 lb/hr and 0.39 ton per year. Carbon monoxide (CO) emissions shall not exceed 0.002 lb/hr and 0.009 ton per year. Volatile organic compound (VOC) emissions shall not exceed 0.10 lb/hr and 0.44 ton per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.002 lb/hr and 0.009 ton per year.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. PE emissions from the fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.17 pound per hour and 0.76 ton per year, as a rolling, 12-month summation. NOx emissions from the fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 1.72 pounds per hour and 7.56 tons per year, as a rolling, 12-month summation. SO2 emissions from the fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 3.68 pounds per hour and 16.11 tons per year, as a rolling, 12-month summation. CO emissions from the fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling emissions units J005, P006 - P007, T027, T030, and T035 shall not exceed 0.99 pound per hour and 4.33 tons per year, as a rolling, 12-month summation. OC emissions from the fossil fuel combustion (natural gas or fuel oil) in the PCC incinerator controlling J005, P006 - P007, T027, T030, and T035 shall not exceed 0.06 pound per hour and 0.28 ton per year, as a rolling, 12-month summation.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-17-11	The emissions limitations specified by these rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.
	OAC rule 3745-21-09(L)	See A.II.1 below.
	OAC rules 3745-3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: CO - 0.01 tpy VOC - 0.44 tpy SO2 - 0.37 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	40 CFR Part 60, Subpart Kb	exempt See A.I.2.a below.
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
	40 CFR Part 63, Subpart LLLLL	No permittee shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15 minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.

2. Additional Terms and Conditions

2.a This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 3.5 kPa (0.51 psia).

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1) and OAC rule 3745-21-09(L))

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range (see section A.IV.8) while the emissions unit is in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required by section A.III.2, for at least 2 years. The records required by section A.III.2 shall be kept for the life of the source.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissiosn unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. The permittee shall operate and maintain a continuous monitor and recorder that measure the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

6. The permittee shall maintain monthly records that show the date(s) and time(s) when the vacuum manifold static pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director (Akron RAQMD), for review during normal business hours.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall maintain records of the following:

a. the types of petroleum liquids stored in the tank;

b. the period of storage; and

c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.

(Authority for term: PTI 16-02347, OAC rule 3745-77-07(C)(1), and OAC rule 3745-21-09(L))

8. The permittee shall maintain monthly records of the following information for this emission unit:

a. the CO, VOC, and SO2 emissions, in tons, from both the tank and products of combustion of the incinerator for each month based upon the results of the latest stack test; and

b. the rolling, 12-month summation of CO, VOC, and SO2 emissions in tons from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. Each report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements (continued)

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month CO, VOC, and SO2 emission limitations from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-02347, OAC rule 3745-21-09(L), and OAC rule 3745-77-07(C)(1))

6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Director (the Akron RAQMD) that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall also submit annual reports that specify the total SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions and (c) provide a summary of all Method 9 readings taken. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.b Emission Limitations:

0.03 lb/hr of PE/PM-10
0.12 ton per year of PE/PM-10

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitations:

0.09 lb/hr of SO2
0.37 ton per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Method:

SO2 emissions (tpy) = [Uncontrolled H2S emissions (tpy) - Controlled H2S emissions (tpy)] * 1.88

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

1.d Emission Limitation:

0.10 lb/hr of VOC
0.44 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.e Emission Limitations:

0.002 lb/hr of H2S
0.01 ton per year of H2S

Applicable Compliance Method:

Uncontrolled H2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H2S;
C = pollutant concentration (ppm) from correlation of the concentration of H2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H2S emissions (tpy) = H2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.f Emission Limitations:

0.02 lb/hr of CO
0.01 ton per year of CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.g Emission Limitations:

0.17 lb/hr of PE (products of combustion from incinerator)
0.76 ton per year of PE based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 5 of 40 CFR Part 60, Appendix A.

The tpy emission limitation was developed by multiplying the short-term allowable PE limitation (0.17 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.h Emission Limitations:

0.99 lb/hr of CO (products of combustion from incinerator)
4.33 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (12 MBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.99 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.i Emission Limitation:

3.68 lbs/hr of SO2 (products of combustion from incinerator)
16.11 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 6 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.68 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.j Emission Limitation:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.28 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 18 or 25/25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.k Emission Limitations:

1.73 lbs/hr NOx (products of combustion from incinerator)
7.56 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (12 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.73 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #69 (T036)

Activity Description: Asphalt storage; 30,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Oxidized Asphalt Storage Tank #69 - 30,000-gallon fixed roof storage tank controlled by a JZ thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31-13 through 3745-31-20, 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year. Sulfur dioxide (SO2) emissions shall not exceed 0.21 lb/hr and 0.94 ton per year. Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr and 0.07 ton per year. Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr and 0.21 ton per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. PE emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation. NOx emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation. SO2 emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation. CO emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		OC emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.06 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11	The emission limitations specified by these rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.
	OAC rule 3745-21-09(L)	See A.II.1 below.
	OAC rules 3745-3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: CO - 0.07 tpy VOC - 0.21 tpy SO2 - 0.94 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	40 CFR Part 60, Subpart Kb	exempt See A.I.2.a below.
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 63, Subpart LLLLL	No permittee shall cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than 0 percent, except for one consecutive 15 minute period in any 24-hour period when the transfer lines are being blown for clearing. The control device shall not be bypassed during this 15-minute period. 40 CFR Part 60, Subpart UU is not applicable after May 1, 2006 per 40 CFR Part 63, Subpart LLLLL.

2. Additional Terms and Conditions

2.a This emissions unit is exempt from 40 CFR 60, Subpart Kb since it has a capacity greater than or equal to 75 m3 (19,813 gal), but less than 151 m3 (39,890 gal) and stores a liquid with a maximum true vapor pressure less than 15.0 kPa (2.17 psia).

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1) and OAC rule 3745-21-09(L))

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range (see section A.IV.8) while the emissions unit is in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required by section A.III.2, for at least 2 years. The records required by section A.III.2 shall be kept for the life of the source.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissiosn unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. The permittee shall operate and maintain a continuous monitor and recorder that measure the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

6. The permittee shall maintain monthly records that show the date(s) and time(s) when the vacuum manifold static pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall maintain records of the following:

a. the types of petroleum liquids stored in the tank;

b. the period of storage; and

c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.

(Authority for term: PTI 16-02347, OAC rule 3745-77-07(C)(1), and OAC rule 3745-21-09(L))

8. The permittee shall maintain monthly records of the following information for this emission unit:

a. the CO, VOC, and SO2 emissions, in tons, from both the tank and products of combustion of the incinerator for each month based upon the results of the latest stack test; and

b. the rolling, 12-month summation of CO, VOC, and SO2 emissions in tons from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. Each report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month CO, VOC, and SO2 emission limitations from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-02347, OAC rule 3745-21-09(L), and OAC rule 3745-77-07(C)(1))

6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Director (the Akron RAQMD) that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall also submit annual reports that specify the total SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements (continued)

8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions and (c) provide a summary of all Method 9 readings taken. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.b Emission Limitations:

0.01 lb/hr of PE/PM-10
0.06 ton per year of PE/PM-10

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitations:

0.21 lb/hr of SO_2
0.94 ton per year of SO_2, based upon a rolling, 12-month summation

Applicable Compliance Method:

SO_2 emissions (tpy) = [Uncontrolled H_2S emissions (tpy) - Controlled H_2S emissions (tpy)] * 1.88

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

V. Testing Requirements (continued)

1.d Emission Limitation:

0.05 lb/hr of VOC
0.21 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.e Emission Limitations:

0.006 lb/hr of H_2S
0.03 ton per year of H_2S

Applicable Compliance Method:

Uncontrolled H_2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H_2S;
C = pollutant concentration (ppm) from correlation of the concentration of H_2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H_2S emissions (tpy) = H_2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.f Emission Limitations:

0.02 lb/hr of CO
0.07 ton per year of CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.g Emission Limitations:

0.15 lb/hr of PE (products of combustion from incinerator)
0.64 ton per year of PE based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 5 of 40 CFR Part 60, Appendix A.

The tpy emission limitation was developed by multiplying the short-term allowable H2S limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.h Emission Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.84 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.i Emission Limitation:

3.13 lbs/hr of SO2 (products of combustion from incinerator)
13.69 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 6 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.13 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.j Emission Limitation:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 18 or 25/25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.k Emission Limitations:

1.47 lbs/hr NOx (products of combustion from incinerator)
6.43 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.47 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Asphalt Storage Tank #70 (T037)

Activity Description: Asphalt storage; 60,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Oxidized Asphalt Storage Tank #70 - 40,300-gallon fixed roof storage tank controlled by a JZ thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L) and 3745-31-13 through 3745-31-20, 40 CFR Part 60, Subpart Kb, 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL. Particulate emissions (PE) and particulate matter with aerodynamic diameter less than ten microns in diameter (PM-10) emissions shall not exceed 0.01 lb/hr and 0.06 ton per year. Sulfur dioxide (SO2) emissions shall not exceed 0.21 lb/hr and 0.94 ton per year. Carbon monoxide (CO) emissions shall not exceed 0.02 lb/hr and 0.07 ton per year. Volatile organic compound (VOC) emissions shall not exceed 0.05 lb/hr and 0.21 ton per year. Hydrogen sulfide (H2S) emissions shall not exceed 0.006 lb/hr and 0.03 ton per year.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		The hourly and annual emission limitations are based upon the emissions unit's potentials to emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limitations. PE emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.15 pound per hour and 0.64 ton per year, as a rolling, 12-month summation. NOx emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 1.47 pounds per hour and 6.43 tons per year, as a rolling, 12-month summation. SO2 emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 3.13 pounds per hour and 13.69 tons per year, as a rolling, 12-month summation. CO emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling emissions units P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.84 pound per hour and 3.68 tons per year, as a rolling, 12-month summation. OC emissions from the fossil fuel combustion (natural gas or fuel oil) in the JZ incinerator controlling P003 - P005, T007 - T009, T026, T029, T031 - T033, T036, and T037 shall not exceed 0.06 pound per hour and 0.24 ton per year, as a rolling, 12-month summation.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A) OAC rule 3745-17-11	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3), 40 CFR Part 60, Subpart UU, and 40 CFR Part 63, Subpart LLLLL.
	OAC rule 3745-21-09(L)	See A.II.1 below.
	OAC rules 3745-3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: CO - 0.07 tpy VOC - 0.21 tpy SO2 - 0.94 tpy The overall control efficiency (including capture and control) shall not be less than 95% for CO and VOC.
	40 CFR Part 60, Subpart Kb	See A.I.2.a below.
	40 CFR Part 60, Subpart UU	Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.
	40 CFR Part 63, Subpart LLLLL	Exempt per 40 CFR 63.8681(c) since subject to 40 CFR Part 60, Subpart Kb.

2. Additional Terms and Conditions

2.a The permittee shall install a closed vent system and control device meeting the following specifications:

i. the closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as specified by an instrument reading of less than 500 ppm above background and visual inspections as determined in paragraph 60.485(b); and

ii. the control device shall be designed and operated to reduce inlet VOC emissions by 95% or greater.

II. Operational Restrictions

1. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 1.52 pounds per square inch absolute, unless such tank is designed or equipped in accordance with the requirements of paragraph (L)(1) or OAC rule 3745-21-09.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1) and OAC rule 3745-21-09(L))

2. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

II. Operational Restrictions (continued)

3. The operating range for the vacuum manifold static pressure shall be continuously maintained within the normal established operating range (see section A.IV.8) while the emissions unit is in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(A)(1))

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required by section A.III.2, for at least 2 years. The records required by section A.III.2 shall be kept for the life of the source.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the fume incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the fume incinerator, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit or more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissiosn unit was in compliance; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

5. The permittee shall operate and maintain a continuous monitor and recorder that measure the static pressure in the vacuum manifold while the emissions unit is in operation. The monitoring equipment and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. Exceedance of the normal operating static pressure range shall require shutdown, investigation of any problems and corrective action to enable operation in the normal range.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

6. The permittee shall maintain monthly records that show the date(s) and time(s) when the vacuum manifold static pressure fell below normal operating levels. These records shall be kept on site and be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

III. Monitoring and/or Record Keeping Requirements (continued)

7. The permittee shall maintain records of the following:

a. the types of petroleum liquids stored in the tank;

b. the period of storage; and

c. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid.

(Authority for term: PTI 16-02347, OAC rule 3745-77-07(C)(1), and OAC rule 3745-21-09(L))

8. The permittee shall maintain monthly records of the following information for this emission unit:

a. the CO, VOC, and SO2 emissions, in tons, from both the tank and products of combustion of the incinerator for each month based upon the results of the latest stack test; and

b. the rolling, 12-month summation of CO, VOC, and SO2 emissions in tons from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the fume incinerator does not comply with the temperature limitation specified in term A.II.1. Each report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any temperature variations identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The permittee shall submit quarterly deviation (excursion) reports that identify all times during which the static pressure in the vacuum manifold exceeded the normal operating range. This report shall contain, as a minimum, the date, time or occurrence, cause, explanation and corrective action taken for any exceedances identified.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month CO, VOC, and SO2 emission limitations from both the tank and products of combustion of the incinerator.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements as specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements (continued)

5. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 1.52 pounds per square inch absolute and such tank does not comply with OAC rule 3745-21-09(L)(1), the permittee shall so notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-02347, OAC rule 3745-21-09(L), and OAC rule 3745-77-07(C)(1))

6. After installing the control equipment required in section A.I.2.a, the permittee shall submit a report to the Director (the Akron RAQMD) that certifies that the control equipment meets the specifications of paragraph 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by paragraph 60.7(a)(3).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

7. The permittee shall also submit annual reports that specify the total SO2, CO, and VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15th of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

8. The permittee shall submit, within 90 days of startup of the emissions unit, documentation of the determined static pressure normal operating range, in inches of water, for the vacuum manifold.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions and (c) provide a summary of all Method 9 readings taken. These reports shall be submitted to the Director (the Akron RAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible emissions to the ambient air shall not exceed 0% opacity, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

Applicable compliance method:

Compliance shall be determined in accordance with Test Method 9, 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.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.b Emission Limitations:

0.01 lb/hr of PE/PM-10
0.06 ton per year of PE/PM-10

Applicable Compliance Method:

Controlled particulate emissions (tpy) = Controlled VOC emissions (tpy) * (0.28)
From testing, it has been determined that 28% of VOC emissions are considered particulate emissions.

If required, compliance with this mass emission limitation shall be based on stack testing in accordance with Method 5 of 40 CFR Part 60, Appendix A.

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

1.c Emission Limitations:

0.21 lb/hr of SO2
0.94 ton per year of SO2, based upon a rolling, 12-month summation

Applicable Compliance Method:

SO2 emissions (tpy) = [Uncontrolled H2S emissions (tpy) - Controlled H2S emissions (tpy)] * 1.88

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

1.d Emission Limitations:

0.05 lb/hr of VOC
0.21 ton per year of VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

VOC emissions(lb/yr) = VOC Concentration(lb/cf) * Flow * (60 min/hr) * (8760 hr/yr)

Where:

VOC Conc.(lb/cf) = %LEL * (1 - fraction methane/ethane) * (100%LEL conc) * (28.32 L/cf) * (lb/454,000mg)

%LEL = Lower Explosive Limit value for the tank = 0.56, as determined from testing;

fraction methane/ethane = 0.52, as determined from testing;

100% LEL conc. = 45mg/L, value of the Lower Explosion Limit (100% LEL) expressed in a concentration that is constant for alkanes, Industrial Explosion and Protection, Frank T. Bodurtha, p12, McGraw Hill, 1980; and

Flow = vent flow, (cfm) = 60 cfm.

Controlled VOC emissions (tpy) = VOC emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.e Emission Limitations:

0.006 lb/hr of H2S
0.03 ton per year of H2S

Applicable Compliance Method:

Uncontrolled H2S(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.39 mg/m3/ppm emission factor from AP-42 for H2S;
C = pollutant concentration (ppm) from correlation of the concentration of H2S based on the LEL of asphalt = 12.43 * %LEL + 400.5 for oxidized asphalt = 1096.58 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled H2S emissions (tpy) = H2S emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

1.f Emission Limitations:

0.02 lb/hr of CO
0.07 ton per year of CO

Applicable Compliance Method:

Uncontrolled CO(lb/yr) = EF * C * (0.028m3/cf) * (lb/454,000mg) * Flow * (60min/hr) * (8760 hr/yr)

Where:

EF = 1.14 mg/m3/ppm emission factor from AP-42 for CO;
C = pollutant concentration (ppm) from correlation of the concentration of CO based on the LEL of asphalt = 12.43 * %LEL + 800 for oxidized asphalt = 8752 ppm; and
Flow = vent flow, (cfm) = 60 cfm.

Controlled CO emissions (tpy) = CO emissions(lb/yr) * (1 - control efficiency) *(capture efficiency) * (ton/2,000lbs)

Where:

Control efficiency = 95%, as determined from most recent stack test; and
Capture efficiency = 100%, assumed since closed loop system vented to control device.

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

V. Testing Requirements (continued)

1.g Emission Limitations:

0.15 lb/hr of PE (products of combustion from incinerator)
0.64 ton per year of PE based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 5 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.h Emission Limitations:

0.84 lb/hr of CO (products of combustion from incinerator)
3.68 tons per year of CO based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 10 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable CO limitation (0.84 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.i Emission Limitations:

3.13 lbs/hr of SO2 (products of combustion from incinerator)
13.69 tons per year of SO2 based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 6 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable SO2 limitation (3.13 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

1.j Emission Limitations:

0.06 lb/hr of VOC (products of combustion from incinerator)
0.24 ton per year of VOC based upon a rolling, 12-month summation

Applicable Compliance Methods:

Compliance with the lb/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of natural gas.

Compliance with the lb/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 18 or 25/25A of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.06 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

1.k Emission Limitations:

1.47 lbs/hr NOx (products of combustion from incinerator)
6.43 tons per year of NOx based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lbs/hr emission limitation may be determined by multiplying the maximum input capacity (10.2 MMBtu/hr) of the incinerator by the AP-42 emission factor for the combustion of fuel oil.

Compliance with the lbs/hr emission limitation shall be determined by stack testing in accordance with Methods 1 though 4, and 7 of 40 CFR Part 60, Appendix A.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable NOx limitation (1.47 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mineral Spirits Storage Tank #68 (T038)

Activity Description: Mineral spirits storage; 20,000 gallons

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mineral Spirits Storage Tank #68 - 20,000-gallon fixed roof storage tank controlled with water-cooled vapor condenser	OAC rule 3745-31-05(A)(3) (PTI 16-02347)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(L), 3745-31-13 through 3745-31-20, and 40 CFR Part 60, Subpart Kb. Volatile organic compound (VOC) emissions shall not exceed 0.003 lb/hr and 0.01 ton per year. The hourly emission limitation is based upon the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with this limitation.
	OAC rule 3745-21-09(L)(2)	exempt See A.I.2.a below.
	OAC rules 3745-3745-31-13 through 3745-31-20	The emissions per rolling, 12-month period shall not exceed: VOC - 0.01 tpy The overall control efficiency (including capture and control) shall not be less than 85% for VOC.
	40 CFR Part 60, Subpart Kb	exempt See A.III.1 and A.III.2 below.

2. Additional Terms and Conditions

2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The water temperature exiting the condenser shall be continuously maintained at a value of not greater than 87 degrees Fahrenheit at all times while the emissions unit is in operation.

The permittee is not required to operate the condenser during mineral spirit unloading when the ambient temperature is less than 45 degrees F.

(Authority for term: OAC rule 3745-77-07(A)(1) and PTI 16-02347)

2. The permittee shall not place, store, or hold in this fixed roof tank any petroleum liquid which, as stored, has a true vapor pressure greater than 2.176 pounds per square inch absolute (15 kPa), unless such tank complies with the requirements of 40 CFR Part 60, Subpart Kb.

(Authority for term: OAC rule 3745-77-07(A)(1), PTI 16-02347, and 40 CFR Part 60, Subpart Kb)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep copies of all records required by this section, except for the record required by section A.III.2, for at least 2 years. The record required by section A.III.2 shall be kept for the life of the source.

(Authority for term: PTI 16-02347, OAC rule 3745-77-07(C)(1), and 40 CFR Part 60, Subpart Kb)

2. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.

(Authority for term: PTI 16-02347, OAC rule 3745-77-07(C)(1), and 40 CFR Part 60, Subpart Kb)

3. The permittee shall properly operate and maintain equipment to continuously monitor the water temperature exiting the condenser while the emissions unit is in operation. The temperature monitor shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information each day:

a. the outlet water temperature, on a once/shift basis; and

b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, associated emissions unit and ambient temperature.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall maintain records of the following:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 2.176 pounds per square inch absolute (15 kPa).

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

IV. Reporting Requirements

1. The permittee shall submit quarterly outlet water temperature and ambient temperature deviation (excursion) reports that identify all periods of time during which the water temperature exiting the condenser and ambient temperature did not comply with the temperature requirements specified above.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

2. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c of this permit.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

3. If the permittee places, stores, or holds any petroleum liquid with a true vapor pressure which is greater than 2.176 pounds per square inch absolute (15 kPa) and such tank does not comply with 40 CFR Part 60, Subpart Kb, the permittee shall so notify the Director (the Akron RAQMD) within 30 days of becoming aware of the occurrence.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

4. The permittee shall also submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.003 lb/hr of VOC
0.01 ton/yr of VOC, based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the lb/hr emission limitation shall be demonstrated based upon the methods and procedures specified in section A.V.2.

The tpy emission limitation based upon a rolling, 12-month summation was developed by multiplying the short-term allowable VOC limitation (0.003 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

(Authority for term: PTI 16-02347 and OAC rule 3745-77-07(C)(1))

V. Testing Requirements (continued)

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

a. The emission testing shall be conducted within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for VOC.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: for VOC, Methods 1 through 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A.

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

d. 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 Akron RAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron RAQMD. 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 Akron RAQMD's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Akron RAQMD 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 Akron RAQMD.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 16-02347)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Table 7 to Subpart LLLLL of Part 63.--Applicability of General Provisions to Subpart LLLLL

Citation	Subject	Brief description	Applies to subpart LLLLL
Sec. 63.1	Applicability	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications.	Yes.
Sec. 63.2	Definitions	Definitions for part 63 standards.	Yes.
Sec. 63.3	Units and Abbreviations	Units and abbreviations for part 63 standards.	Yes.
Sec. 63.4	Prohibited Activities	Prohibited Activities; Compliance date; Circumvention, Severability.	Yes.
Sec. 63.5	Construction/Reconstruction.	Applicability; applications; approvals.	Yes.
Sec. 63.6(a)	Applicability	GP apply unless compliance extension GP apply to area sources that become major.	Yes.
Sec. 63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources.	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for section 112(f).	Yes.
Sec. 63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal.	Yes.
Sec. 63.6(b)(6)	[Reserved]		
Sec. 63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major.	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source.	Yes.
Sec. 63.6(c)(1)-(2)	Compliance Dates for Existing Sources.	1. Comply according to date in subpart, which must be	Yes.

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		no later than 3 years after effective date. 2. For section 112(f) standards, comply within 90 days of effective date unless compliance extension has been granted.	
Sec. 63.6(c)(3)-(4).....	[Reserved].....		
Sec. 63.6(c)(5).....	Compliance Dates for Existing Area Sources That Become Major.	Area sources that become major must comply with major source standards by date indicated in subpart or by equivalent time period (for example, 3 years).	Yes.

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Sec. 63.6(d).....	[Reserved].....		
Sec. 63.6(e)(1).....	Operation & Maintenance.....	1. Operate to minimize emissions at all times. 2. Correct malfunctions as soon as practicable. 3. Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met.	Yes.
Sec. 63.6(e)(2).....	[Reserved].....		
Sec. 63.6(e)(3).....	Startup, Shutdown, and Malfunction (SSM) Plan (SSMP).	1. Requirement for SSM and startup, shutdown, malfunction plan. 2. Content of SSMP.....	Yes.
Sec. 63.6(f)(1).....	Compliance Except During SSM	You must comply with emission standards at all times except during SSM.	Yes.
Sec. 63.6(f)(2)-(3).....	Methods for Determining Compliance.	Compliance based on performance test, operation and maintenance plans, records, inspection.	Yes.
Sec. 63.6(g)(1)-(3).....	Alternative Nonopacity Standard.	Procedures for getting an alternative nonopacity standard.	Yes.
Sec. 63.6(h).....	Opacity/Visible Emission (VE) Standards.	Requirements for opacity and VE limits.	Yes.
Sec. 63.6(h)(1).....	Compliance with Opacity/VE	You must comply with opacity/	Yes.

	Standards.	VE emission limitations at all times except during SSM.	
Sec. 63.6(h)(2)(i).....	Determining Compliance with Opacity/VE Standards.	If standard does not state test method, use EPA test method 9, 40 CFR 60, appendix A for opacity and EPA test method 22, 40 CFR 60, appendix A for VE.	No. The test methods for opacity and visible emissions are specified in Sec. 63.8687.
Sec. 63.6(h)(2)(ii).....	[Reserved].....		
Sec. 63.6(h)(2)(iii).....	Using Previous Tests to Demonstrate Compliance with Opacity/VE Standards.	Criteria for when previous opacity/VE testing can be used to show compliance with this rule.	Yes.
Sec. 63.6(h)(3).....	[Reserved].....		
Sec. 63.6(h)(4).....	Notification of Opacity/VE Observation Date.	Must notify Administrator of anticipated date of observation.	Yes.
Sec. 63.6(h)(5)(i), (iii)-(v).	Conducting Opacity/VE Observations.	Dates and Schedule for conducting opacity/VE observations.	Yes.
Sec. 63.6(h)(5)(ii).....	Opacity Test Duration and Averaging Times.	Must have at least 3 hours of observation with thirty 6-minute averages.	Yes.
Sec. 63.6(h)(6).....	Records of Conditions During Opacity/VE Observations.	Must keep records available and allow Administrator to inspect.	Yes.
Sec. 63.6(h)(7)(i).....	Report COMS Monitoring Data from Performance Test.	Must submit COMS data with other performance test data.	Yes, if COMS used.
Sec. 63.6(h)(7)(ii).....	Using COMS instead of EPA test method 9, 40 CFR 60, appendix A.	Can submit COMS data instead of EPA test method 9, 40 CFR 60, appendix A results even if rule requires EPA test method 9, 40 CFR 60, appendix A, but must notify Administrator before performance test.	Yes, if COMS used.
Sec. 63.6(h)(7)(iii).....	Averaging time for COMS during performance test.	To determine compliance, must reduce COMS data to 6-minute averages.	Yes, if COMS used.
Sec. 63.6(h)(7)(iv).....	COMS requirements.....	Owner/operator must demonstrate that COMS performance evaluations are conducted according to Sec. 63.8(e), COMS are properly maintained and operated according to Sec. 63.8(c) and data quality as Sec. 63.8(d).	Yes, if COMS used.
Sec. 63.6(h)(7)(v).....	Determining Compliance with	COMS is probative but not	Yes, if COMS used.

		Opacity/VE Standards.	conclusive evidence of compliance with opacity standard, even if EPA test method 9, 40 CFR 60, appendix A observation shows otherwise. Requirements for COMS to be probative evidence, proper maintenance, meeting PS 1, and data have not been altered.	
Sec.	63.6(h)(8).....	Determining Compliance with Opacity/VE Standards.	Administrator will use all COMS, EPA test method 9, 40 CFR 60, appendix A, and EPA test method 22, 40 CFR 60, appendix A results, as well as information about operation and maintenance to determine compliance.	Yes.
Sec.	63.6(h)(9).....	Adjusted Opacity Standard...	Procedures for Administrator to adjust an opacity standard.	Yes.
Sec.	63.6(i).....	Compliance Extension.....	Procedures and criteria for Administrator to grant compliance extension.	Yes.
Sec.	63.6(j).....	Presidential Compliance Exemption.	President may exempt source category from requirement to comply with rule.	Yes.

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Sec.	63.7(a)(1)-(2).....	Performance Test Dates.....	Dates for conducting initial performance testing and other compliance demonstrations. Must conduct 180 days after first subject to rule.	Yes.
Sec.	63.7(a)(3).....	Section 114 Authority.....	Administrator may require a performance test under CAA section 114 at any time.	Yes.
Sec.	63.7(b)(1).....	Notification of Performance Test.	Must notify Administrator 60 days before the test.	Yes.
Sec.	63.7(b)(2).....	Notification of Rescheduling	If rescheduling a performance test is necessary, must notify Administrator 5 days before scheduled date of rescheduled date.	Yes.

Sec.	63.7(c).....	Quality Assurance/Test Plan.	1. Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with: 2. Test plan approval procedures. 3. Performance audit requirements. 4. Internal and external QA procedures for testing.	Yes.
Sec.	63.7(d).....	Testing Facilities.....	Requirements for testing facilities	Yes.
Sec.	63.7(e)(1).....	Conditions for Conducting Performance Tests.	1. Performance tests must be conducted under representative conditions. Cannot conduct performance tests during SSM. 2. Not a violation to exceed standard during SSM.	Yes.
Sec.	63.7(e)(2).....	Conditions for Conducting Performance Tests.	Must conduct according to rule and EPA test methods unless Administrator approves alternative.	Yes.
Sec.	63.7(e)(3).....	Test Run Duration.....	1. Must have three test runs of at least 1 hour each. 2. Compliance is based on arithmetic mean of three runs. 3. Conditions when data from an additional test run can be used.	Yes.
Sec.	63.7(f).....	Alternative Test Method.....	Procedures by which Administrator can grant approval to use an alternative test method.	Yes.
Sec.	63.7(g).....	Performance Test Data Analysis.	1. Must include raw data in performance test report. 2. Must submit performance test data 60 days after end of test with the Notification of Compliance Status. 3. Keep data for 5 years....	Yes.
Sec.	63.7(h).....	Waiver of Tests.....	Procedures for Administrator to waive performance test.	Yes.
Sec.	63.8(a)(1).....	Applicability of Monitoring Requirements.	Subject to all monitoring requirements in standard.	Yes.
Sec.	63.8(a)(2).....	Performance Specifications..	Performance Specifications	Yes, if CEMS used.

			in appendix B of part 60 apply.	
Sec.	63.8(a)(3).....	[Reserved]		
Sec.	63.8(a)(4).....	Monitoring with Flares.....	Unless your rule says otherwise, the requirements for flares in Sec. 63.11 apply.	Yes.
Sec.	63.8(b)(1).....	Monitoring.....	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes.
Sec.	63.8(b) (2)-(3).....	Multiple Effluents and Multiple Monitoring Systems.	1. Specific requirements for installing monitoring systems. 2. Must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise. 3. If more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup.	Yes.
Sec.	63.8(c)(1).....	Monitoring System Operation and Maintenance.	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes.
Sec.	63.8(c)(1)(i).....	Routine and Predictable CMS malfunction.	1. Follow the SSM plan for routine repairs. 2. Keep parts for routine repairs readily available. 3. Reporting requirements for CMS malfunction when action is described in SSM plan.	Yes.
Sec.	63.8(c)(1)(ii).....	CMS malfunction not in SSP plan.	Reporting requirements for CMS malfunction when action is not described in SSM plan.	Yes.

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Sec.	63.8(c)(1)(iii).....	Compliance with Operation and Maintenance	1. How Administrator determines if source	Yes.

		Requirements.	complying with operation and maintenance requirements. 2. Review of source O&M procedures, records, manufacturer's instructions, recommendations, and inspection of monitoring system.	
Sec.	63.8(c)(2)-(3).....	Monitoring System Installation.	1. Must install to get representative emission and parameter measurements. 2. Must verify operational status before or at performance test.	Yes.
Sec.	63.8(c)(4).....	CMS Requirements.....	CMS must be operating except during breakdown, out-of-control, repair, maintenance, and high-level calibration drifts.	No; Sec. 63.8690 specifies the CMS requirements.
Sec.	63.8(c)(4)(i)-(ii)...	CMS Requirements.....	1. COMS must have a minimum of one cycle of sampling and analysis for each successive 10-second period and one cycle of data recording for each successive 6-minute period. 2. CEMS must have a minimum of one cycle of operation for each successive 15-minute period.	Yes, if COMS used.
Sec.	63.8(c)(5).....	COMS Minimum Procedures.....	COMS minimum procedures	Yes.
Sec.	63.8(c)(6).....	CMS Requirements.....	Zero and High level calibration check requirements.	No; Sec. 63.8688 specifies the CMS requirements.
Sec.	63.8(c)(7)-(8).....	CMS Requirements.....	Out-of-control periods, including reporting.	Yes.
Sec.	63.8(d).....	CMS Quality Control.....	1. Requirements for CMS quality control, including calibration, etc. 2. Must keep quality control plan on record for the life of the affected source. 3. Keep old versions for 5 years after revisions.	No; Sec. 63.8688 specifies the CMS requirements.
Sec.	63.8(e).....	CMS Performance Evaluation..	Notification, performance evaluation test plan, reports.	No; Sec. 63.8688 specifies the CMS requirements.

Sec.	63.8(f)(1)-(5).....	Alternative Monitoring Method.	Procedures for Administrator to approve alternative monitoring.	Yes.
Sec.	63.8(f)(6).....	Alternative to Relative Accuracy Test.	Procedures for Administrator to approve alternative relative accuracy tests for CEMS.	Yes, if CEMS used.
Sec.	63.8(g)(1)-(4).....	Data Reduction.....	1. COMS 6-minute averages calculated over at least 36 evenly spaced data points. 2. CEMS 1-hour averages computed over at least 4 equally spaced data points.	Yes, if CEMS or COMS used.
Sec.	63.8(g)(5).....	Data Reduction.....	Data that cannot be used in computing averages for CMS.	No; Sec. 63.8690 specifies the CMS requirements.
Sec.	63.9(a).....	Notification Requirements...	Applicability and State Delegation	Yes.
Sec.	63.9(b)(1)-(5).....	Initial Notifications.....	1. Submit notification 120 days after effective date. 2. Notification of intent to construct/reconstruct; notification of commencement of construct/ reconstruct; notification of startup. 3. Contents of each.....	Yes.
Sec.	63.9(c).....	Request for Compliance Extension.	Can request if cannot comply by date or if installed Best Achievable Control Technology (BACT)/Lowest Achievable Emission Rate (LAER).	Yes.
Sec.	63.9(d).....	Notification of Special Compliance Requirements for New Source.	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date.	Yes.
Sec.	63.9(e).....	Notification of Performance Test.	Notify Administrator 60 days prior	Yes.
Sec.	63.9(f).....	Notification of VE/Opacity Test.	Notify Administrator 30 days prior	Yes.
Sec.	63.9(g).....	Additional Notifications When Using CMS.	1. Notification of performance evaluation. 2. Notification using COMS data. 3. Notification that the criterion for use of alternative to relative	No; Sec. 63.8692 specifies the CMS notification requirements.

		accuracy testing was exceeded.	
Sec. 63.9(h)(1)-(6).....	Notification of Compliance Status.	1. Contents. 2. Due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after. 3. When to submit to Federal vs. State authority.	Yes.

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Sec. 63.9(i).....	Adjustment of Submittal Deadlines.	Procedures for Administrator to approve change in dates when notifications must be submitted.	Yes.
Sec. 63.9(j).....	Change in Previous Information.	Must submit within 15 days after the change.	Yes.
Sec. 63.10(a).....	Recordkeeping/Reporting.....	1. Applies to all, unless compliance extension. 2. When to submit to Federal vs. State authority. 3. Procedures for owners of more than 1 source.	Yes.
Sec. 63.10(b)(1).....	Recordkeeping/Reporting.....	1. General Requirements..... 2. Keep all records readily available.. 3. Keep for 5 years.....	Yes.
Sec. 63.10(b)(2)(i)-(v)...	Records related to Startup, Shutdown, and Malfunction.	1. Occurrence of each of operation (process equipment). 2. Occurrence of each malfunction of air pollution equipment. 3. Maintenance on air pollution control equipment. 4. Actions during startup, shutdown, and malfunction.	Yes.
Sec. 63.10(b)(2)(vi) and (x-xi).	CMS Records.....	1. Malfunctions, inoperative, out-of-control. 2. Calibration checks..... 3. Adjustments, maintenance.	Yes.
Sec. 63.10(b)(2)(vii)-(ix)	Records.....	1. Measurements to demonstrate compliance with emission limitations. 2. Performance test, performance evaluation, and	Yes.

		visible emission observation results. 3. Measurements to determine conditions of performance tests and performance evaluations.	
Sec. 63.10(b)(2)(xii).....	Records.....	Records when under waiver...	Yes
Sec. 63.10(b)(2)(xiii)....	Records.....	Records when using alternative to relative accuracy test.	Yes.
Sec. 63.10(b)(2)(xiv).....	Records.....	All documentation supporting Initial Notification and Notification of Compliance Status.	Yes.
Sec. 63.10(b)(3).....	Records.....	Applicability determinations	Yes.
Sec. 63.10(c)(1)-(6), (9)-(15).	Records.....	Additional records for CMS..	No; Sec. 63.8694 specifies the CMS recordkeeping requirements.
Sec. 63.10(c)(7)-(8).....	Records.....	Records of excess emissions and parameter monitoring exceeedances for CMS.	No; Sec. 63.8694 specifies the CMS recordkeeping requirements.
Sec. 63.10(d)(1).....	General Reporting Requirements.	Requirement to report.....	Yes.
Sec. 63.10(d)(2).....	Report of Performance Test Results.	When to submit to Federal or State authority.	Yes.
Sec. 63.10(d)(3).....	Reporting Opacity or VE Observations.	What to report and when.....	Yes.
Sec. 63.10(d)(4).....	Progress Reports.....	Must submit progress reports on schedule if under compliance extension.	Yes.
Sec. 63.10(d)(5).....	Startup, Shutdown, and Malfunction Reports.	Contents and submission.....	Yes.
Sec. 63.10(e)(1), (2).....	Additional CMS Reports.....	1. Must report results for each CEM on a unit. 2. Written copy of performance evaluation. 3. Three copies of COMS performance evaluation.	Yes.
Sec. 63.10(e)(3).....	Reports.....	Excess emission reports.....	No; Sec. 63.8693 specifies the reporting requirements.
Sec. 63.10(e)(3)(i)-(iii).	Reports.....	Schedule for reporting excess emissions and parameter monitor exceedances (now defined as deviations).	No; Sec. 63.8693 specifies the reporting requirements.

Sec. 63.10(e)(3)(iv)-(v)..	Excess Emissions Reports....	1. Requirement to revert to the frequency specified in the relevant standard if there is an excess emissions and parameter monitor exceedances (now defined as deviations). 2. Provision to request semiannual reporting after compliance for one year. 3. Submit report by 30th day following end of quarter or calendar half. 4. If there has not been an exceedance or excess emission (now defined as deviations), report content is a statement that there have been no deviations.	No; Sec. 63.8693 specifies the reporting requirements.

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Sec. 63.10(e)(3)(iv)-(v)..	Excess Emissions Reports....	Must submit report containing all of the information in Sec. 63.10(c)(5)(13), Sec. 63.8(c)(7)-(8).	No; Sec. 63.8693 specifies the reporting requirements.
Sec. 63.10(e)(3)(vi)-(viii).	Excess Emissions Report and Summary Report.	1. Requirements for reporting excess emissions for CMS (now called deviations). 2. Requires all of the information in Sec. 63.10(c)(5)(13), Sec. 63.8(c)(7)-(8).	No; Sec. 63.8693 specifies the reporting requirements.
Sec. 63.10(e)(4).....	Reporting COMS data.....	Must submit COMS data with performance test data.	Yes, if COMS used.
Sec. 63.10(f).....	Waiver for Recordkeeping/ Reporting.	Procedures for Administrator to waive.	Yes.
Sec. 63.11.....	Flares.....	Requirements for flares.....	Yes.
Sec. 63.12.....	Delegation.....	State authority to enforce standards.	Yes.
Sec. 63.13.....	Addresses.....	Addresses where reports, notifications, and requests are sent.	Yes.
Sec. 63.14.....	Incorporation by Reference..	Test methods incorporated by reference.	Yes.
Sec. 63.15.....	Availability of Information.	Public and confidential	Yes.

Attachment I

information.

Attachment I

Federal Register

Wednesday,
December 4, 2002

Part III

Environmental Protection Agency

40 CFR Part 63

National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating; Final Rules

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 63

[FRL–7385–5]

RIN 2060–AG58

National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This action finalizes national emission standards for hazardous air pollutants (NESHAP) for facilities that coat paper and other web substrates and are major sources of hazardous air pollutants (HAP) emissions. The standards implement section 112(d) of the Clean Air Act (CAA) to protect public health and the environment by reducing HAP emissions from new and existing facilities. The CAA requires these sources to achieve the maximum degree of reduction in HAP emissions that is achievable. The final standards will eliminate approximately 80 percent of nationwide HAP emissions from facilities that coat paper and other web substrates.

EFFECTIVE DATE: December 4, 2002. The incorporation by reference of certain publications listed in today's final rule is approved by the Director of the Federal Register as of December 4, 2002.

ADDRESSES: *Docket.* Docket No. A–99–09 contains supporting information used in developing the standards for the paper and other web coating source category. The docket is located at the Environmental Protection Agency, Office of Air & Radiation Docket & Information Center, Mail Code 6102T, 1301 Constitution Avenue, NW, Room B108, Washington, DC 20460, and may be inspected from 8:30 a.m. to 5:30 p.m., Monday through Friday, excluding legal holidays.

FOR FURTHER INFORMATION CONTACT: Mr. Paul Almodovar, Coating and Consumer Products Group (C539–03), Emission Standards Division, U.S. EPA, Research Triangle Park, NC 27711, telephone number (919) 541–0283, facsimile number (919) 541–5689, electronic mail (e-mail) address: *almodovar.paul@epa.gov*.

SUPPLEMENTARY INFORMATION: *Docket.* The docket is an organized and complete file of all the information considered by the EPA in the development of rulemaking. The docket is a dynamic file because material is added throughout the rulemaking process. The docketing system is intended to allow members of the public and industries involved to readily identify and locate documents so that they can effectively participate in the rulemaking process. Along with the proposed and promulgated standards and their preambles, the contents of the docket will serve as the record in the case of judicial review. (*See* section 307(d)(7)(A) of the CAA.) The regulatory text and other materials related to this rulemaking are available for review in the docket or copies may be mailed on request from the Air and Radiation Docket and Information Center by calling (202) 566–1742. A reasonable fee may be charged for copying docket materials.

WorldWide Web (WWW). In addition to being available in the docket, an electronic copy of today's final rule will also be available on the WWW through the EPA's Technology Transfer Network (TTN). Following signature by the EPA Administrator, a copy of the rule will be posted on the TTN's policy and guidance page for newly proposed or promulgated rules at *http://www.epa.gov/ttn/oarpg*. The TTN provides information and technology exchange in various areas of air pollution control. If more information regarding the TTN is needed, call the TTN HELP line at (919) 541–5384.

Regulated Entities. Categories and entities potentially regulated by this action include those listed on the following table. This table is not intended to be exhaustive, but is just a guide to entities likely to be regulated by these standards. It lists the types of entities that may be regulated, but you should examine the applicability criteria in §§ 63.3290 and 63.3300 of the rule to decide whether your facility is regulated by the standards. If you have any questions about whether your facility is subject to the standards, call the person listed in the preceding **FOR FURTHER INFORMATION CONTACT** section.

CATEGORIES AND ENTITIES POTENTIALLY REGULATED BY THE STANDARDS

Category	NAICS Codes	Examples of Potentially Regulated Entities
Paper and Other Web Coating ..	322211 322212 [a] 322221 322222 [a] 322223 [a] 322224 322225 322226 [a] 322299 323111 323116 325992 326111 326112 [a] 326113 32613 326192 [a] 32791 332999 339944	Those facilities with web coating operations [b] that coat substrate used in products including, but not limited to: corrugated and solid fiber boxes; folding paperboard boxes, including sanitary; flexible packaging (packing paper and plastics film, coated and laminated); pressure sensitive tape and labels, medical tape, duct tape, coated and laminated paper, not elsewhere classified (nec); plastics, foil, and coated paper bags; bags: uncoated paper and multiwall; die-cut paper and board; converted paper and paperboard products, nec (gift wrap, paper wallpaper, cigarette paper); commercial printing, gravure; manifold business forms; plastic aseptic packaging; unsupported plastics film and sheet; laminated plastics plate, sheet, and profile shapes; abrasive products; laminated aluminum (metal) foil and leaf, flexible packaging; photographic equipment and supplies; carbon paper and inked ribbons; linoleum, asphalted-felt base, and other hard surface floor coverings.

[a] Facilities in these NAICS codes are expected to be primarily covered under the printing and publishing NESHAP.

[b] Web coating operations refer to the application of a continuous layer of coating material across the entire width or any portion of the width of a web substrate, and any associated curing/drying equipment between an unwind or feed station and a rewind or cutting station where the continuous web substrate is flexible enough to be wound or unwound as rolls.

Judicial Review. Under section 307(b) of the CAA, judicial review of the final rule is available only by filing a petition for review in the United States Court of Appeals for the District of Columbia Circuit by February 3, 2003. Under section 307(d)(7)(B) of the CAA, only an objection to the rule which was raised with reasonable specificity during the period for public comment can be raised during judicial review. Moreover, under section 307(b)(2) of the CAA, the requirements established by today's final action may not be challenged separately in any civil or criminal proceeding we bring to enforce these requirements.

Outline. The information presented in this preamble is organized as follows:

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H. Paperwork Reduction Act
I. National Technology Transfer and Advancement Act
J. Congressional Review Act

I. What Are the Subject and Purpose of the Rule?

The CAA requires us to establish standards to control HAP emissions from source categories identified under section 112(c) of the CAA. An initial source category list was published in the **Federal Register** on July 16, 1992 (57 FR 31576). The source category list identifies ''Paper and Other Web Coating (Surface Coating)'' as a source category because it contains major sources of HAP emissions. Under the CAA, a major source is defined as ''* * * any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, considering controls, in the aggregate, 10 tons per year (tpy) or more of any one HAP or 25 tpy or more of any combination of HAP.'' We have estimated that there are over 400 existing paper and other web coating facilities with approximately 203 estimated to be major sources of HAP emissions.

The purpose of the rule is to reduce emissions of HAP from paper and other web coating major sources. The source category is for major sources only. Area sources are not included in this source category and, therefore, are not subject to the standards. We estimate that annual baseline organic HAP emissions from this source category are approximately 37,800 megagrams per year (Mg/yr) (42,000 tpy). The final rule will eliminate approximately 31,300 Mg/yr (34,500 tpy) of these organic HAP emissions (about an 80 percent reduction).

The organic HAP emitted from the paper and other web coating process include toluene, methanol, methyl ethyl ketone, xylenes, phenol, methylene chloride, ethylene glycol, glycol ethers, hexane, methyl isobutyl ketone, cresols and cresylic acid, dimethylformamide, vinyl acetate, formaldehyde, and ethyl benzene. These pollutants can cause reversible or irreversible toxic effects following sufficient exposure. The potential toxic effects include eye, nose, throat, and skin irritation, and blood cell, heart, liver, kidney damage, and possibly cancer.

The degree of adverse effects to human health from exposure to HAP can range from mild to severe. The extent and degree to which the human health effects may be experienced are dependent upon (1) the ambient concentration observed in the area (as influenced by emission rates, meteorological conditions, and terrain); (2) the frequency and duration of exposures; (3) characteristics of exposed individuals (genetics, age, preexisting health conditions, and lifestyle) which vary significantly with the population; and (4) pollutant-specific characteristics (toxicity, half-life in the environment, bioaccumulation, and persistence).

II. Does the Rule Apply to Me?

A. What Facilities Are Subject to the Rule?

The paper and other web coating source category includes any facility that is located at a major source and is engaged in the coating of paper, plastic film, metallic foil, and other web surfaces. Paper and other web coating may be simply referred to as ''web coating'' since paper is one of several web substrates in the paper and other web coating source category. The source category does not include printing operations covered under the Printing and Publishing NESHAP (40 CFR part 63, subpart KK) or web coating lines subject to the Magnetic Tape Manufacturing NESHAP (40 CFR part 63, subpart EE). The source category does not include coil coating, *i.e.*, the application of a coating to the surface of any metal strip at least 0.15 millimeter (0.006 inch) thick that is packaged in a roll or coil, which is being regulated as a separate source category. However, we have identified facilities that coat metal webs greater than 0.15 millimeter thick that are coated for use in flexible packaging. These web coating lines are part of the paper and other web coating source category and, therefore, are not subject to the Coil Coating NESHAP. Fabric coating operations are also being regulated as a separate source category, except for fabric coating for use in pressure sensitive tape and abrasive materials.

The rule applies to you if you own or operate any web coating lines at a facility that is a major source of HAP emissions. This means that the web coating lines at a major source would be subject to the standards without regard to the relative proportion of HAP emissions from the web coating lines to total HAP emissions at the source.

If your facility is a nonmajor (area) source, *i.e.*, actual and potential annual emissions are less than 10 tons of any single HAP and less than 25 tons of all HAP combined, you would not be subject to the rule.

If your facility is a major source, you would be required to meet the emission limits for all the web coating lines at your facility. We have defined a web to be a continuous substrate (*e.g.*, paper, plastic film, foil) that is capable of being rolled at any point during the coating

process. We have defined a web coating line to be any number of work stations, of which one or more applies a continuous layer of coating material along the entire width of a continuous web substrate or any portion of the width of the web substrate, and any associated curing/drying equipment between an unwind (or feed) station and a rewind (or cutting) station. As stated before, printing presses subject to the Printing and Publishing NESHAP (40 CFR part 63, subpart KK) are not web coating lines.

B. What Is the Affected Source?

We define an affected source as a stationary source, group of stationary sources, or part of a stationary source to which a specific NESHAP applies. Within a source category, we select the specific emission sources (emission points or groupings of emission points) that will make up the affected source for that category. To select these emission sources, we mainly consider the constituent HAP and quantity emitted from individual or groups of emission points.

For the Paper and Other Web Coating NESHAP, the affected source is the collection of all the web coating lines at a facility. As previously stated, a web coating line is defined as any number of work stations, of which one or more applies a continuous layer of coating material across the entire width or any portion of the width of a web substrate, and any associated curing/drying equipment between an unwind or feed station and a rewind or cutting station.

Affiliated operations such as mixing or dissolving of coating ingredients prior to application; coating mixing for viscosity adjustment, color tint or additive blending, or pH adjustment; cleaning of coating lines and coating line parts; handling and storage of coatings and solvent; and conveyance and treatment of wastewater are part of the paper and other web surface coating source category. The final distinction between these affiliated operations and other activities that go beyond the affiliated operations described above will be resolved in the context of the Miscellaneous Organic Chemical Manufacturing NESHAP or the Miscellaneous Coating Manufacturing NESHAP, both currently under development. Review of the industry survey data reflected that only a small portion of the surveyed facilities reported any data concerning affiliated operations, and only some of these facilities reported that HAP emissions from affiliated operations were controlled. For facilities that reported control of HAP emissions from these sources, the data were not sufficiently detailed to determine if the reported control represented the facility level of control or the control for one unit operation of this type out of several in the facility. For example, mixing may be performed in a mix room and at the application station. It was not clear from the reported data if a facility reporting capture and control of emissions from mixing operations conducted all mixing at controlled application stations or possibly just a single mix room was controlled. When these operations occur inside a permanent total enclosure, emissions reductions can be achieved at the overall control efficiency of the capture and control system. We were not able to identify emissions reductions for affiliated operations with the available data. Since we were not able to identify emissions reductions for affiliated operations, we believe it is not appropriate at this time to include them in the affected source in the final rule.

The requirements of the future Miscellaneous Organic Chemical Manufacturing NESHAP and the Miscellaneous Coating Manufacturing NESHAP will not apply to affiliated operations located at a facility subject to the rule. Activities which go beyond the affiliated operations described above may, however, be subject to the requirements of the Miscellaneous Organic Chemical Manufacturing NESHAP and the Miscellaneous Coating Manufacturing NESHAP. Language will be added to both of these rules to clarify their applicability.

Coating lines and equipment that are not in the source category and thus, not in the affected source, include those that perform both coating and printing and are subject to the national emission standards for the printing and publishing industry (40 CFR part 63, subpart KK); metal coil coating operations, except for the coating of metal webs greater than 0.15 millimeter thick that are used in flexible packaging; and fabric coating operations, except for fabric coating for use in pressure sensitive tape and abrasive materials.

Many industrial facilities perform both coating and printing operations. Within the printing industry, the product and packaging rotogravure and wide-web flexographic industry segment (that includes the flexible packaging industry as a major subsector) does the most coating, with material use distributed almost equally between inks and other types of coatings. Printing operations are covered under the NESHAP for the printing and publishing industry (40 CFR part 63, subpart KK). The Printing and Publishing NESHAP also include an option for facilities that perform both printing and coating to include certain coating operations as affected sources subject to that rule. Therefore, many facilities that could potentially be subject to the Paper and Other Web Coating NESHAP may have coating lines already subject to the Printing and Publishing NESHAP. Such web coating lines included in compliance demonstrations under the Printing and Publishing NESHAP are not subject to the Paper and Other Web Coating NESHAP. A detailed discussion of the printing and publishing industry is included in the background information document for that industry (Docket No. A–92–42, National Emission Standards for Hazardous Air Pollutants: Printing and Publishing Industry—Background Information for Proposed Standards (EPA–453/R–95–002a)).

III. What Are the Emission Standards?

A. Emission Limits

In the rule, we expressed the emission limit in three formats based on whether HAP emissions are measured in terms of mass of organic HAP applied, mass of coating material applied, or mass of coating solids applied. You may choose to comply with any of these formats (referred to as the ''emission limits''). The HAP emission limits are based on emission capture and control technology that can reduce total organic HAP emissions by 95 percent at existing affected sources and 98 percent at new affected sources. The HAP emission limits reflect this level of control by limiting organic HAP emissions to no more than 5 percent and 2 percent of the organic HAP applied each month at existing and new affected sources, respectively; and by equivalently limiting emissions based on the mass of the solids part of your coatings or the mass of your total coating materials. We believe expressing emission limits in this way is appropriately based on the maximum achievable control technology (MACT) level of control and offers flexibility to reduce emissions through the use of control technology, pollution prevention, or a combination of the two.

The three HAP emission limits for existing affected sources are: (1) Limit emissions to no more than 5 percent of the mass of organic HAP applied each month (95 percent reduction); (2) limit the total mass of organic HAP in your coating materials, or the total mass of organic HAP emitted, to no more than 4 mass percent of the total mass of coating materials applied to the web substrate each month; or (3) limit the total mass of organic HAP in your

coatings, or the total mass of organic HAP emitted, to no more than 20 mass percent of the total mass of coating solids applied to web substrates each month.

The three HAP emission limits for new affected sources are: (1) Limit emissions to no more than 2 percent of the mass of organic HAP applied each month (98 percent reduction); (2) limit the total mass of organic HAP in your coating materials, or the total mass of organic HAP emitted, to no more than 1.6 mass percent of the total mass of coating material applied to the web substrate each month; or (3) limit the total mass of organic HAP in your coatings, or the total mass of organic HAP emitted, to no more than 8 mass percent of the total mass of coating solids applied to web substrates each month.

Alternatively, the owners or operators of both existing and new affected sources using a thermal oxidizer to control organic HAP emissions may choose to operate the oxidizer such that an outlet HAP concentration of no greater than 20 parts per million by volume (ppmv) by compound on a dry basis is achieved. If 100 percent capture efficiency is achieved and this outlet concentration is achieved on a continuous basis, then the source will be deemed to be in compliance with the emission limit. Our rationale for including this alternative emission limit is included in section VII.B of this preamble.

If your facility is subject to today's rule, the General Provisions (40 CFR part 63, subpart A) also apply to you. The General Provisions codify procedures and criteria we use to carry out all part 63 NESHAP promulgated under the CAA. The General Provisions contain administrative procedures, preconstruction review procedures, and procedures for conducting compliance-related activities such as notifications, recordkeeping and reporting, performance testing, and monitoring. The rule refers to individual sections of the General Provisions that we believe will be of particular interest to you. However, unless specifically overridden in Table 2 of the rule, all of the General Provisions requirements apply to you.

B. Interaction With Other Regulations

You may be subject to both the Paper and Other Web Coating NESHAP and other future or existing rules, such as new source performance standards (NSPS) and State rules requiring reasonably available control technology limits on volatile organic compounds (VOC) emissions. You must comply with all applicable rules. Duplicative recordkeeping and reporting requirements and differences in emission limitations may be resolved through your title V permit.

IV. When Do I Show Initial Compliance With the Rule?

Existing affected sources must comply with the rule no later than 3 years after December 4, 2002. The effective date is December 4, 2002. New or reconstructed affected sources must comply upon start-up or December 4, 2002, whichever is later. Details of the compliance requirements can be found in the General Provisions, as outlined in Table 1 of today's rule.

Before your initial compliance demonstration, you must choose which of the three emission limit options you will use for your affected source. In your initial compliance certification, you must notify the Administrator of your choice and after that, you must monitor and report compliance results accordingly. If you decide to change to other emission limit options, you are also required to notify the Administrator, as with other changes at the facility, as discussed in section VI of this preamble.

V. What Testing and Monitoring Must I Do?

In addition to the specific testing and monitoring requirements specified below for the affected source, the rule adopts the testing requirements specified in § 63.7 of 40 CFR part 63.

A. Test Methods and Procedures

You may comply with the standards by applying materials meeting the organic HAP emission rate limits, by using capture and control equipment to reduce organic HAP emissions by 95 percent at existing affected sources and by 98 percent at new affected sources, or by using a combination of low-organic-HAP materials and capture and control equipment to meet the organic HAP emission rate limits.

If you demonstrate compliance based on the coating materials applied on your web coating lines, you must determine the organic HAP content of materials applied using either EPA Method 311 of appendix A of 40 CFR part 63, an alternative method for determining the organic HAP content (but only after obtaining EPA approval), or the volatile organic content of the coating materials applied as the value for the organic HAP content. The volatile organic content must be determined by EPA Method 24 of appendix A of 40 CFR part 60 (or an approved alternative method). If you are demonstrating compliance by applying coating materials that meet the emission limit based on coating solids applied, the coating solids content of the materials must be determined using EPA Method 24.

You may rely on formulation data to determine the organic HAP content, volatile matter content, or coating solids content as an alternative to performing Method 311 or Method 24 testing.

To demonstrate compliance, you must calculate the average mass of organic HAP in the coating materials applied on the web coating lines and show that it is less than the organic HAP emission limits specified.

If you use an emission capture and control system to comply with the standards, you must demonstrate that the overall control efficiency reduces total organic HAP emissions by at least 95 percent at existing sources and 98 percent at new sources. Alternatively, you may use capture and control equipment in combination with low-organic-HAP materials and demonstrate you meet one of the other organic HAP emission limits. To comply using this combined approach, you must determine the overall control efficiency of the capture and control equipment and the organic HAP content of the materials applied on the web coating lines. If you choose to demonstrate compliance with the emission limit based on coating solids applied, then you must also determine the coating solids content of each coating material used on the web coating lines. These values must be determined for each monthly period.

To determine the capture system efficiency, you must either confirm that your capture system is a permanent total enclosure using EPA Method 204 of 40 CFR part 51, appendix M, in which case you may assume 100 percent capture; or use EPA Methods 204A through F to measure capture efficiency. You may also use any capture efficiency protocol or test method that satisfies either the data quality objectives or lower confidence limit approach as described in appendix A of 40 CFR part 63, subpart KK.

You must determine the emission destruction or removal efficiency of a control device by conducting a performance test or using a continuous emission monitoring system (CEMS). If you use a CEMS, you must determine the inlet and outlet concentration to calculate the control efficiency. The CEMS must comply with performance specification 8 or 9 in 40 CFR part 60, appendix B.

If you conduct a performance test, the destruction or removal efficiency of a control device must be determined based on three runs, each run lasting 1

hour. Method 1 or 1A of 40 CFR part 60, appendix A, must be used for selection of the sampling sites. Method 2, 2A, 2C, 2D, 2F, or 2G of 40 CFR part 60, appendix A, must be used to determine the gas volumetric flow rate. Method 3, 3A, or 3B of 40 CFR part 60, appendix A, must be used for gas analysis to determine dry molecular weight. Method 4 of 40 CFR part 60, appendix A, must be used to determine stack moisture. Method 25 or 25A of 40 CFR part 60, appendix A, must be used to determine organic volatile matter concentration, although the use of Method 25A is limited as detailed in the rule. Alternatively, any other test method or data that have been validated according to the applicable procedures in Method 301 of 40 CFR part 63, appendix A, may be used if approved by the Administrator.

If you use a solvent recovery system to comply with the requirements of the rule, you may alternatively determine the overall control efficiency using a liquid-liquid material balance. If you demonstrate compliance by using the material balance, you must measure the amount of all coating materials applied during each month to the web coating lines and determine the volatile matter content of these materials. You must also measure the amount of volatile matter recovered by the solvent recovery system during the month and calculate the overall solvent recovery efficiency.

If you so choose, you may also take into account any amount of organic HAP retained in the coated web or otherwise not emitted to the atmosphere, as discussed in section VII.C of this preamble. The final rule requires you to develop a testing protocol for determining the mass of volatile matter retained or otherwise not emitted to the atmosphere. This protocol would have to be submitted and approved as part of your site-specific test plan.

The test methods we require, as discussed above, are existing EPA methods that are familiar to the industry, readily available, and appropriate to the device or the parameter being measured. The selected tests are expected to establish whether the facility is complying with the standards.

B. Monitoring Requirements

According to paragraph (a)(3) of section 114 of the CAA, monitoring of stationary sources is required to determine the compliance status of the sources, and whether compliance is continuous or intermittent. For affected sources complying with the standards by using capture and control systems, initial compliance is determined through an initial performance test and ongoing compliance through continuous monitoring. We specify the operating parameters that need to be monitored for certain control devices used in the paper and other web coating industry (thermal and catalytic oxidizers). You must set the values of these parameters, which demonstrate compliance with the standards, during your initial performance test. These values are your ''operating limits.'' If future monitoring shows that capture and control equipment is operating outside the range of values established during the initial performance test, then you are deviating from the operating limits.

If you use a capture and control system to meet the standards, you are required to develop and maintain a plan identifying the operating limit and monitoring procedures for the capture system. You must monitor in accordance with your plan.

If you use a thermal or catalytic oxidizer to comply with the standards, you must monitor temperature using a continuous parameter monitoring system. If you use a thermal oxidizer to comply with the standards, you must establish the average combustion temperature recorded during the performance test as the operating limit. If you use a catalytic oxidizer to comply with the standards , you must establish as the operating limits the average inlet gas temperature and temperature rise across the catalyst bed recorded during the performance test. Alternatively, you may establish as the operating limits for a catalytic oxidizer the average gas temperature at the inlet of the catalyst bed and the average catalyst activity level.

If you use a solvent recovery system to comply with the emission limits, you must conduct monthly liquid-liquid material balances or operate continuous emission monitors.

VI. What Notification, Recordkeeping, and Reporting Requirements Must I Follow?

The rule requires you to comply with notification, recordkeeping, and reporting requirements, generally as described in the General Provisions (*see* Table 2 of the rule) and specifically as designed to support demonstration of compliance with the rule. We believe that these requirements are necessary and sufficient to ensure that you comply with the requirements in the rule (40 CFR part 63 subpart JJJJ).

A. Initial Notification

If the NESHAP apply to you, you must send an initial notification to the EPA Regional Office in the region where your facility is located and to your State agency. If you have an existing affected source, you must submit the initial notification no later than 1 year before the compliance date, which is December 5, 2005. If you have a new or reconstructed affected source, you must submit the notification no later than 120 days after either the date of initial start-up or December 4, 2002, whichever is later.

The initial notification notifies us and your State agency that you have an existing affected source that is subject to the standards or that you have constructed a new affected source. Thus, it allows you and the Federal or State enforcement agency to plan for compliance activities. The General Provisions specify the information you must include in the initial notification and other reporting requirements for both existing affected sources and new or reconstructed affected sources.

B. Notification of Performance Tests

If the rule applies to you, you will have several options for demonstrating compliance. If you demonstrate compliance by using a capture and control system to reduce HAP emissions, you must conduct a performance test as described in the rule. Prior to conducting the performance test, you must notify us or the delegated State or local agency at least 60 calendar days before the performance test is scheduled to begin, as indicated in the General Provisions.

C. Notification of Compliance Status

You are required to send a notice of compliance status within 180 days after the compliance date as specified in the General Provisions. This report must include your compliance certification, the results of any performance tests and monitoring, and a description of how you will demonstrate continuing compliance.

In conformance with 40 CFR 63.9(h), the notification of compliance status must identify whether low-HAP materials, emission capture and control systems, or a combination of low-HAP materials and capture and control systems were used to comply with the standards. For capture and control systems, it must also identify the operating limits established during the performance test. Specific reporting requirements are dependent upon how you choose to comply with the standards.

D. Recordkeeping Requirements

Records of the organic HAP, volatile organic content and solids content of

each coating applied, and the amount of each coating applied on paper and other web coating lines each month must be maintained to comply with the standards based on organic HAP content or organic HAP emissions on a mass basis.

If capture and control technology is used, you are required to keep records of the equipment monitoring parameter measurements as specified in the final rule. You must also develop a start-up, shutdown, and malfunction plan. You would have to make the plan available for inspection if the Administrator requests to see it. It must stay in your records for the life of the affected source or until the source is no longer required to meet the standards.

E. Periodic Reports

Each reporting year is divided into two semiannual reporting periods. If no deviations occur during a semiannual reporting period, you would submit a semiannual compliance report stating that the affected source has been in compliance. A deviation is any instance in which you fail to meet any requirement or obligation of the standards or any term or condition adopted to meet the standards. The following information would be required in semiannual compliance reports when deviations occur:

- If you are complying by using add-on control devices, report all deviations from the control device operating parameters.
- If you are complying by using solvent recovery systems and liquid-liquid material balance, report material balance calculations for all months when the material balances deviated from the emission limit.
- If you are complying by using add-on controls or solvent recovery systems with continuous emission monitors, report all deviations from the operating parameter values established for the capture system and all deviations from the emission limit.
- If you are complying by using low-HAP coating materials, report all deviations from the emission limit.
- If you are complying by using a combination of capture and control systems with low-HAP coating materials, report all deviations from the emission limit and all deviations from operating parameters described above.

You would also have to send us reports for each semiannual reporting period in which the following occur:

- A change occurs at your facility or within your process that might affect its compliance status.
- A change from what was reported in the initial notice occurs at your facility or within your process.
- You decide to change to another emission limitation option.
- You had a startup, shutdown, or malfunction of an emission control device during the semiannual period and the actions taken were consistent with your startup, shutdown, and malfunction plan (SSMP).

VII. What Major Changes Have We Made to the Rule Since Proposal?

We requested comments from the public on the proposed rule in general, as well as several specific areas. We received 28 comment letters from industry representatives, industry trade groups, and individuals. In response to these comments, we made several changes for the final rule. Many of these changes are clarifications designed to make our intentions clearer. However, some of the changes affect the requirements specified in the proposed rule. The more significant changes to the proposed rule are summarized in the following sections. Our complete responses to public comments for the final rule are contained in the document ''National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Category: Paper and Other Web Coating, Summary of Public Comments and Responses on the Proposed Rule'' (EPA–453/R–02–005).

A. Applicability

Several comments were received on the potential applicability overlap between the proposed rule and other coating standards. The affected source section has been revised to exclude web coating lines subject to the Magnetic Tape Manufacturing NESHAP (40 CFR part 63, subpart EE) and the Printing and Publishing NESHAP (40 CFR part 63, subpart KK) from the requirements of the final rule (40 CFR part 63, subpart JJJJ). The affected source section has also been revised to exclude web coating lines that will be an affected source under the NESHAP for metal coil surface coating operations currently under development. The final rule has been revised to exclude web coating lines that are engaged in the coating of both fabric and other webs on the same fabric coating line and that will be an affected source under the NESHAP for fabric and other textiles printing, coating, and dyeing operations currently under development. Finally, the rule has been revised to clarify that certain web coating lines engaged in fabric coating for use in pressure sensitive tape and abrasive materials are part of the Paper and Other Web Coating source category. While most of these products are commonly produced using a paper web, product applications that require higher performance or unique characteristics may necessitate the use of a fabric web. The coating equipment, the coating solutions, and the emissions are essentially the same whether the coated web is fabric or paper. Therefore, we are regulating these web coating processes under today's final rule.

B. New Source Emission Limit

We received a comment expressing doubt that new sources could consistently achieve 98 percent control efficiency using an oxidizer. The commenter stated that the data we used to develop the new source emission limit were based on short-term performance tests. Over the long term, according to the commenter, oxidizer performance can vary due to coating process variabilities. The commenter requested that we adopt the existing source control efficiency requirement of 95 percent for new sources. While the commenter did not explain what was meant by ''coating process variabilities,'' we assumed that this was a reference to fluctuating organic HAP inlet concentrations during periods of reduced coating application. We recognize that oxidizer performance may decrease when the inlet concentration decreases. While we believe the 98 percent organic HAP overall control efficiency for new sources is achievable based on information provided by the paper and other web coating industry, we added an alternative emission limit based on outlet organic HAP concentration that should account for any variable or low inlet concentrations. The MACT floor analysis for the rule determined that the emission control of the best controlled source in this category was 98 percent. Therefore, we have retained the 98 percent overall control of organic HAP emissions for new affected sources. As stated in the preamble to the proposed rule (65 FR 55339), although some facilities reported more than 98 percent overall control of organic HAP emissions, this higher level of control may not be achievable on a continuous basis under all normal operating conditions applicable to new sources. In order to provide additional flexibility and ensure consistency with other coating-related NESHAP in development, we added an alternate emission limit based on outlet organic HAP concentration. Owners or operators of both existing and new affected sources using a thermal oxidizer to control organic HAP emissions may choose to operate the oxidizer such that

an outlet organic HAP concentration of no greater than 20 ppmv is achieved as long as 100 percent capture efficiency is achieved.

The 20 ppmv by compound organic HAP limit is based on previous EPA studies of available oxidizer technology, cost, and energy use. The dual requirement of meeting a minimum control efficiency value or a 20 ppmv by compound limit accounts for a fall-off of oxidizer efficiency at lower inlet concentrations. For example, if an inlet concentration is only 200 ppmv, even if an outlet concentration of 20 ppmv is achieved, the control efficiency is only 90 percent. This is less than the existing source limit of 95 percent and the new source limit of 98 percent. We recognize this problem for oxidizers with low inlet concentrations and, consequently, have included the alternate 20 ppmv by compound organic HAP emission limit.

Previous EPA studies have shown that new oxidizers can achieve the 20 ppmv by compound emission limit even when the inlet organic HAP concentration is low. We believe that most existing oxidizers could also reach the emission limit with moderate adjustments. The combustion temperature and residence time used in the previous EPA studies to achieve the 20 ppmv by compound emission limit (870 degrees Celsius (1600 degrees Fahrenheit) and 0.75 second) are typical of the necessary operating conditions. We believe these operating conditions are achievable by both new and existing sources.

C. Solvent Retained in the Web

Numerous commenters provided information concerning volatile materials that may be retained in the coated web even after the drying/curing operation. Most of these commenters were concerned that a source using solvent recovery and demonstrating compliance by means of a liquid-liquid material balance would be at a disadvantage because the compliance demonstration procedures in the proposed rule assumed that all volatile materials in the coatings are emitted. Thus, the emissions would be overestimated when volatile material is retained in the coated web. The commenters requested that an ''as-emitted'' compliance option be added to the final rule.

Volatile HAP may be retained in the web due to reactive coatings in which the volatiles are consumed or changed in a chemical reaction during the drying/curing operation, or where a portion of the volatiles is physically retained within the coated web. Volatile HAP may also be recovered from the web coating process and recycled, therefore, not being emitted to the atmosphere. Under the proposed rule, sources using solvent recovery devices and demonstrating compliance through the use of a liquid-liquid material balance would have no means of accounting for the volatile HAP retained in the coated web and not emitted to the atmosphere. Even a small percentage of volatile HAP retained in the coated web would restrict the ability of such a source to comply with the emission limitations in the proposed rule.

In response to these comments, we have added paragraph (g) to § 63.3360, the performance testing section of the final rule. This paragraph allows a source to take into account the mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere. It also requires the source to develop a testing protocol for determining the mass of volatile matter retained or otherwise not emitted to the atmosphere. This protocol would have to be submitted and approved as part of a site-specific test plan. This added paragraph applies to any means of demonstrating compliance, not just liquid-liquid material balances.

In conjunction with the new paragraph in § 63.3360, we revised Equations 4, 5, 6, 7, 8, 12, 14, and 15 of § 63.3370 by adding a term (M_{vret}) to account for volatile matter not emitted from the coating operation. This term may be used to account for reactive coatings, volatile matter chemically bound in the dried coating, incomplete curing, or other situations. These modifications have the same effect as the commenters' request for adding an ''as-emitted'' compliance option.

D. Monitoring

We received numerous comments indicating that the performance specifications (PS) for parameter monitoring of control devices were overly burdensome, particularly the temperature monitor requirements for oxidizers. While we believe the requirements in the proposed rule were appropriate, we have reviewed these requirements and made modifications where continuous compliance assurance will not be compromised. For example, the temperature monitor requirements for oxidizers no longer require monthly inspection of the electrical connections of the temperature monitoring system because we believe the industry adequately performs such monitoring in the absence of specific requirements as part of their routine maintenance. If you wish to monitor an alternative parameter for an oxidizer, or choose to use a control device other than an oxidizer, then you must apply for and receive approval of an alternative monitoring method under § 63.8(f) of the General Provisions. Through this procedure, you have the option of selecting monitoring appropriate to your specific facility that is the most efficient for your needs while still assuring that continuous compliance is maintained.

A related change concerns control devices equipped with an automatic system that shuts down the control device when the temperature falls below the minimum set point. We received comments requesting that hourly averages of temperature readings not be required when such a system is installed. We agree that such a system is an adequate monitor of control device performance and will assure continuous compliance. The final rule specifies that you have the option of using such a system after receiving approval under § 63.8(f) of the General Provisions.

We clarified the minimum data availability requirements for calculating a valid hourly value from continuous monitoring system data, as well as for calculating values for the 3-hour averages derived from the hourly values. These changes were in response to comments indicating that the proposed rule did not clearly indicate what constituted a valid set of data for an hourly reading.

As an alternative to measuring the inlet temperature and temperature rise across the catalyst bed of a catalytic oxidizer to demonstrate continuous compliance, the rule includes a provision that allows you to monitor the temperature at the inlet to the catalyst bed and the catalyst activity level.

The proposed rule did not take into account that some existing facilities may already have CEMS in place. In order to allow such a facility to use the CEMS for compliance purposes, a provision was added to the final rule which allows the use of CEMS to monitor the organic HAP concentration in an exhaust stream from an emission source that is controlled by means other than solvent recovery. However, in order to use the CEMS data for compliance purposes, the emission source must also be operated within a permanent total enclosure.

VIII. What Are the Environmental, Energy, and Economic Impacts of the Rule?

We developed model facilities to represent the paper and other web coating industry based on the data we collected. We estimated environmental, energy, and economic impacts based upon what these modeled facilities must do to meet the rule. There are several options for demonstrating compliance

with these standards, and each facility has flexibility to adopt the compliance option which has the least economic impact for their individual situation. Most of the existing major source facilities in this industry apply solvent-based coatings and utilize thermal oxidation to reduce HAP emissions. Therefore, in estimating the impacts associated with the rule, we assumed that most facilities would install a permanent total enclosure and either install a new thermal oxidizer or upgrade the mechanical components of an existing one. If, instead, a facility complies with the rule by applying coatings that meet the emission limitation, the capital and operating costs and other impacts would be lower than estimated. Hence, the estimates presented below may overestimate the costs and other impacts as some facilities may comply with the rule by applying low-HAP coatings.

A. Emission Reductions

For existing affected sources in the paper and other web coating industry (approximately 203 major sources), the nationwide baseline organic HAP emissions are estimated to be 35,000 Mg/yr (39,000 tpy). We estimate that implementation of the final rule would reduce emissions from existing major sources by approximately 29,000 Mg/yr (32,000 tpy), or approximately 80 percent.

We have projected the growth of the paper and other web coating industry and anticipate that 32 new affected sources (individual facilities with one or more web coating lines) will be constructed over the next 5 years. In the absence of this rule, these new sources would be required to comply with the NSPS in 40 CFR part 60 for VOC. Because nearly all the VOC used by the paper and other web coating industry are also organic HAP, the NSPS would reduce organic HAP emissions as well as VOC emissions. Based on the analysis performed to develop model plants to assess the impacts of the proposed rule on the industry, it was determined that the NSPS represents a 90 percent reduction of organic HAP emissions. Therefore, this level of control was used to estimate the baseline organic HAP emissions for new sources (*i.e.*, the level of emissions from new sources in the absence of this rule). We estimated that nationwide organic HAP baseline emissions from new sources will be about 2,800 Mg/yr (3,000 tpy). We estimate that implementation of the final rule will reduce emissions from new affected sources by about 2,300 Mg/yr (2,535 tpy), or approximately 80 percent.

B. Secondary Environmental Impacts

Secondary environmental impacts are considered to be any air, water, or solid waste impacts, positive or negative, associated with the implementation of the final standards. These impacts are exclusive of the direct organic HAP air emissions reductions discussed in the previous section.

We estimate that more than 99 percent of the organic HAP emissions from paper and other web coating are VOC. Therefore, the capture and control of organic HAP that are presently emitted will result in a decrease in VOC emissions. Consequently, we estimate the current nationwide VOC emissions from the paper and other web coating source category to be at least 35,000 mg/yr (39,000 tpy), the nationwide organic HAP estimate. The emission controls for organic HAP will reduce non-HAP VOC emissions as well.

Emissions of VOC have been associated with a variety of health and welfare impacts. The VOC emissions, together with nitrogen oxides, are precursors to the formation of ground-level ozone, or smog. Exposure to ambient ozone is responsible for a series of public health impacts, such as alterations in lung capacity and aggravation of existing respiratory disease. Ozone exposure can also damage forests and crops.

The use of newly installed or upgraded control devices to meet the standards would result in greater electricity consumption. Increases in emissions of nitrogen oxides, sulfur dioxide, carbon monoxide, and carbon dioxide, as well as certain HAP, from electric utilities could result. The operation of newly installed or upgraded control devices would also require combustion of supplemental fuel, typically natural gas, resulting in additional emissions of nitrogen oxides, carbon monoxide, and carbon dioxide.

It is expected that some paper and other web coating facilities will comply with the standards by substituting non-HAP materials for organic HAP presently in use. In some cases, the non-HAP materials may be VOC, however, in other cases, non-VOC materials (*e.g.*, water) may be used. Facilities converting to waterborne materials as a means or partial means of compliance may have reduced Resource Conservation and Recovery Act hazardous waste disposal if the status of the waste material changes from hazardous to nonhazardous. An increase in wastewater discharge may then occur if this waste material and waterborne wash up materials are discharged to publicly owned treatment works. However, we do not expect any significant increases in wastewater discharge to result from the standards.

New and upgraded catalytic oxidizers will require catalysts. Catalyst life is estimated to be more than 10 years. Spent catalysts will represent a small amount of solid waste, and sometimes the spent catalyst will be regenerated by the manufacturer for reuse. Activated carbon used in solvent recovery systems is typically returned to the manufacturer at the end of its useful life and converted to other products. Little solid waste impact is expected from this.

C. Energy Impacts

The operation of new and upgraded control devices will require additional energy. Capture of previously uncontrolled solvent-laden air will require fan horsepower. Operation of oxidizers, particularly thermal oxidizers, may require supplemental fuel (typically natural gas) to increase the combustion temperature and improve destruction efficiency.

The total additional electrical energy required to meet the standards is estimated to be 313 million kilowatt-hours per year. Additional fuel requirements total 3.7 billion British thermal units per year. These fuel impacts are based on the use of thermal oxidizers at all facilities, which is the control scenario expected to result in the highest energy impacts.

D. Cost Impacts

The total nationwide capital and annualized costs (1998 dollars) attributable to compliance with the standards have been estimated for existing and new affected sources. Costs are based on the use of permanent total enclosures, thermal oxidizers, and monitoring equipment (*i.e.*, CEMS for solvent recovery systems). The capital costs with other methods of control (*e.g.*, applying low-HAP coatings) are expected to be significantly lower.

It is expected that any new facility using solvent-based coatings will install control systems to comply with applicable State and Federal regulations for reducing VOC emissions from this source category (*e.g.*, the standards of performance for new stationary sources in 40 CFR part 60). The data we gathered on this industry indicate that thermal oxidation is the most common control technology installed to meet the requirements of these existing State and Federal regulations. Thermal oxidation is capable of achieving a 98 percent reduction of HAP emissions. Therefore, the additional costs to a new facility resulting from the standards were estimated based on the costs of

constructing a permanent total enclosure to deliver all HAP emissions to the existing thermal oxidizer.

Capital costs would be incurred by installing capture and control systems at existing facilities presently without capture and control systems, and upgrading capture and control systems at existing facilities that do not meet the standards. Additionally, we estimated the cost for the purchase of monitoring equipment needed as a capital investment to meet the monitoring, recordkeeping, and reporting requirements of the standards. Total nationwide capital costs are estimated to be $222 million with the cost for existing sources and new sources estimated to be $204 million and $18 million, respectively.

Total nationwide annualized costs of the standards have been estimated at $69 million with the annualized cost for existing and new sources estimated to be $64 million and $5 million, respectively. These costs include capital recovery over a 10-year period, operating costs for the newly installed and upgraded capture and control systems, and costs for monitoring, recordkeeping, and reporting. These are net costs after taking into account the costs presently being incurred for the baseline control level.

E. Economic Impacts

The economic impact analysis (EIA) shows that the expected price increases for affected output would range from only 0.1 to 1.1 percent as a result of the standards. The expected change in production of affected output is a reduction of 0.1 to 1.1 percent as a result of the standards. The economic impact analysis predicts three plant closures among the facilities included in the analysis. Although any facility closure is cause for concern, it should be noted that the baseline economic condition of the facilities predicted to close affects the closure estimate provided by the economic model. Facilities which are already experiencing adverse economic conditions for reasons unconnected to the final rule are more vulnerable to the impact of any new costs than those that are not. The facilities predicted to close appear to currently have low profitability levels. While the final rule may adversely impact the three facilities predicted to close, we do not predict an adverse economic impact to the industry as a whole.

IX. Administrative Requirements

A. Executive Order 12866, Regulatory Planning and Review

Under Executive Order 12866 (58 FR 51735, October 4, 1993), EPA must determine whether the regulatory action is ''significant'' and therefore subject to review by the Office of Management and Budget (OMB) and the requirements of the Executive Order. The Executive Order defines ''significant regulatory action'' as one that is likely to result in a rule that may:

(1) Have an annual effect on the economy of $100 million or more or adversely affect in a material way the economy, a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or State, local, or tribal governments or communities;

(2) Create a serious inconsistency or otherwise interfere with an action taken or planned by another agency;

(3) Materially alter the budgetary impact of entitlements, grants, user fees, or loan programs, or the rights and obligation of recipients thereof; or

(4) Raise novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in the Executive Order.

It has been determined that this rule is not a ''significant regulatory action'' under the terms of Executive Order 12866 and is therefore not subject to OMB review.

B. Executive Order 13045, Protection of Children From Environmental Health Risks and Safety Risks

Executive Order 13045 (62 FR 19885, April 23, 1997) applies to any rule that: (1) is determined to be ''economically significant'' as defined under Executive Order 12866, and (2) concerns an environmental health or safety risk that EPA has reason to believe may have a disproportionate effect on children. If the regulatory action meets both criteria, the EPA must evaluate the environmental health or safety effects of the planned rule on children, and explain why the planned regulation is preferable to other potentially effective and reasonably feasible alternatives considered by the Agency.

The EPA interprets Executive Order 13045 as applying only to those regulatory actions that are based on health or safety risks, such that the analysis required under section 5–501 of the Executive Order has the potential to influence the regulation. This rule is not subject to Executive Order 13045 because it is based on technology performance and not on an assessment of health or safety risks. Furthermore, the rule has been determined not to be ''economically significant'' as defined under Executive Order 12866.

C. Executive Order 13132, Federalism

Executive Order 13132, entitled ''Federalism'' (64 FR 43255, August 10, 1999), requires EPA to develop an accountable process to ensure ''meaningful and timely input by State and local officials in the development of regulatory policies that have federalism implications.'' ''Policies that have federalism implications'' are defined in the Executive Order to include regulations that have ''substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.''

The final rule does not have federalism implications. It will not have substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government, as specified in Executive Order 13132. Thus, Executive Order 13132 does not apply to the rule. Although section 6 of Executive Order 13132 does not apply to the rule, EPA did consult with State and local officials to enable them to provide timely input in the development of the rule.

D. Executive Order 13175, Consultation and Coordination With Indian Tribal Governments

Executive Order 13175, entitled ''Consultation and Coordination with Indian Tribal Governments'' (65 FR 67249, November 9, 2000), requires EPA to develop an accountable process to ensure ''meaningful and timely input by tribal officials in the development of regulatory policies that have tribal implications.'' The final rule does not have tribal implications, as specified in Executive Order 13175. No tribal governments own or operate paper and other web coating lines. Thus, Executive Order 13175 does not apply to the rule.

E. Executive Order 13211, Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, and Use

The final rule is not subject to Executive Order 13211 (66 FR 28355, May 22, 2001) because it is not a significant regulatory action under Executive Order 12866.

F. Unfunded Mandates Reform Act of 1995

Title II of the Unfunded Mandates Reform Act of 1995 (UMRA), Public

Law 104–4, establishes requirements for Federal agencies to assess the effects of their regulatory actions on State, local, and tribal governments and the private sector. Under section 202 of the UMRA, EPA generally must prepare a written statement, including a cost-benefit analysis, for proposed and final rules with ''Federal mandates'' that may result in expenditures to State, local, and tribal governments, in the aggregate, or to the private sector, of $100 million or more in any 1 year. Before promulgating an EPA rule for which a written statement is needed, section 205 of the UMRA generally requires EPA to identify and consider a reasonable number of regulatory alternatives and adopt the least costly, most cost-effective, or least burdensome alternative that achieves the objectives of the rule. The provisions of section 205 do not apply when they are inconsistent with applicable law. Moreover, section 205 allows EPA to adopt an alternative other than the least costly, most cost-effective, or least burdensome alternative if the Administrator publishes with the final rule an explanation why that alternative was not adopted. Before EPA establishes any regulatory requirements that may significantly or uniquely affect small governments, including tribal governments, it must have developed under section 203 of the UMRA a small government agency plan. The plan must provide for notifying potentially affected small governments, enabling officials of affected small governments to have meaningful and timely input in the development of EPA regulatory proposals with significant Federal intergovernmental mandates, and informing, educating, and advising small governments on compliance with the regulatory requirements.

The EPA has determined that the rule does not contain a Federal mandate that may result in expenditures of $100 million or more to State, local, and tribal governments, in the aggregate, or the private sector in any 1 year. The maximum total annual cost of the rule for any year has been estimated to be about $69 million. Thus, today's rule is not subject to the requirements of sections 202 and 205 of the UMRA. In addition, EPA has determined that the standards contains no regulatory requirements that might significantly or uniquely affect small governments because it contains no requirements that apply to such governments or impose obligations upon them. Therefore, today's rule is not subject to the requirements of section 203 of the UMRA.

G. Regulatory Flexibility Act (RFA), as Amended by the Small Business Regulatory Enforcement Fairness Act of 1966 (SBREFA), 5 U.S.C. 601, et seq.

The EPA has determined that it is not necessary to prepare a regulatory flexibility analysis in connection with the final rule. For purposes of assessing the impacts of today's rule on small entities, small entity is defined as: (1) A small business ranging from 500 to 750 employees, according to Small Business Administration size standards established under the NAICS for the industries affected by today's rule; (2) a small governmental jurisdiction that is a government of a city, county, town, school district or special district with a population of less than 50,000; and (3) a small organization that is any not-for-profit enterprise which is independently owned and operated and is not dominant in its field.

After considering the economic impacts of today's final rule on small entities, EPA has concluded that this action will not have a significant impact on a substantial number of small entities. We have determined that 50 of the 103 companies owning affected facilities are small businesses. Although small businesses represent 49 percent of the companies within the source category, they are expected to incur 25 percent of the total industry compliance costs of $64 million. There are six small firms with compliance costs equal to or greater than 3 percent of their sales. In addition, there are four small firms with cost-to-sales ratios between 1 and 3 percent.

We performed an EIA to estimate the changes in product price and production quantities for the firms affected by the final rule. The analysis shows that of the 54 facilities owned by affected small firms, one would be expected to shut down rather than incur the cost of compliance with the final rule. Although any facility closure is cause for concern, it should be noted that the baseline economic condition of the facility predicted to close affects the closure estimate provided by the economic model. Facilities which are already experiencing adverse economic conditions for reasons unconnected to the rule are more vulnerable to the impact of any new costs than those that are not. The facility predicted to close appears to have low profitability levels currently. The EPA also notes that, while economies of scale will require individual small firms to pay a somewhat higher proportion of revenues than large firms for compliance, the burden on most small firms is quite low nevertheless. The median compliance cost is well below 1 percent of sales for both small and large firms affected by these standards (0.16 and 0.03 percent of sales for small and large firms, respectively).

In summary, while a few small firms may experience significant impacts, there will not be a substantial number incurring such a burden. For more information, consult the docket for this project.

H. Paperwork Reduction Act

The information collection requirements in the rule have been submitted for approval to OMB under the Paperwork Reduction Act, 44 U.S.C. 3501, *et seq.* An Information Collection Request (ICR) document has been prepared by EPA (ICR No. 1951.02) and a copy may be obtained from Susan Auby by mail at the Collection Strategies Division (2822T), U.S. EPA, 1200 Pennsylvania Avenue, NW., Washington, DC 20460, by e-mail at *auby.susan@epa.gov,* or by calling (202) 566–1672. A copy may also be downloaded off the internet at *http://www.epa.gov/icr.* The information requirements are not effective until OMB approves them.

The information requirements are based on notification, recordkeeping, and reporting requirements in the NESHAP General Provisions (40 CFR part 63, subpart A), which are mandatory for all operators subject to national emission standards. These recordkeeping and reporting requirements are specifically authorized by section 114 of the CAA (42 U.S.C. 7414). All information submitted to EPA pursuant to the recordkeeping and reporting requirements for which a claim of confidentiality is made is safeguarded according to Agency policies set forth in 40 CFR part 2, subpart B.

The annual monitoring, recordkeeping, and reporting burden for this collection (averaged over the first 3 years after the effective date of the rule) for existing web coating facilities is estimated to be 38,708 labor hours at a total annual cost of $2,914,796. For new sources, the annual burden for the same 3-year period is estimated to be 2,754 labor hours at a total annual cost of $206,283. This estimate covers all monitoring, recordkeeping, and reporting activities, including a one-time submission of a SSMP with semiannual reports for any event when the procedures in the plan were not followed; semiannual compliance reports; notifications; and recordkeeping. The total annual capital/startup cost component (including purchase of services component) for

existing sources over the 3-year period is estimated to be $2,015,800. The annual operation and maintenance costs component for existing sources is estimated to be $649,779. For new sources, the estimated annual capital/startup cost component is $233,500 and the estimated annual operation and maintenance cost component is $28,520. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information.

An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR part 9 and 48 CFR, chapter 15. The OMB control number for the information collection requirements in this rule will be listed in an amendment to 40 CFR part 9 in a subsequent **Federal Register** document after OMB approves the ICR.

I. National Technology Transfer and Advancement Act

As noted in the proposed rule, section 12(d) of the National Technology Transfer and Advancement Act of 1995 (NTTAA), Public Law 104–113, section 12(d) (15 U.S.C. 272 note) directs EPA to use voluntary consensus standards (VCS) in its regulatory activities unless to do so would be inconsistent with applicable law or otherwise impractical. The VCS are technical standards (*e.g.*, materials specifications, test methods, sampling procedures, and business practices) that are developed or adopted by VCS bodies. The NTTAA directs EPA to provide Congress, through OMB, explanations when the Agency decides not to use available and applicable VCS.

The final rule involves technical standards. The EPA cites the following standards: EPA Methods 1, 1A, 2, 2A, 2C, 2D, 2F, 2G, 3, 3A, 3B, 4, 24, 25, 25A, 204, 204A through F, and 311; and PS 6, 8, and 9. Consistent with the NTTAA, EPA conducted searches to identify VCS in addition to these EPA methods/PS. No applicable VCS were identified for EPA Methods 1A, 2A, 2D, 2F, 2G, 204, 204A through F, and 311, and PS 6, 8, and 9. The search and review results have been documented and are placed in docket A–99–09 for the rule.

The VCS described below was identified as an acceptable alternative to EPA test methods for the purposes of the rule.

The VCS ANSI/ASME PTC 19.10–1981, ''Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus],'' is cited in the rule for its manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas. This part of ASME PTC 19.10–1981–Part 10 is an acceptable alternative to Method 3B.

Six VCS are already incorporated by reference (IBR) in EPA Method 24: ASTM D1475–90, ASTM D2369–95, ASTM D3792–91, ASTM D4017–96a, ASTM D4457–85 (Reapproved 1991), and ASTM D5403–93. Five VCS are IBR in EPA Method 311: ASTM D1979–91, ASTM D3432–89, ASTM D4747–87, ASTM D4827–93, and ASTM PS9–94.

In addition to the VCS EPA uses in the rule, the search for emissions measurement procedures identified 14 other VCS. The EPA determined that 11 of these 14 standards identified for measuring emissions of the HAP or surrogates subject to emission standards in the rule were impractical alternatives to EPA test methods for the purposes of the rule. Therefore, EPA does not intend to adopt these standards for this purpose. Three of the 14 VCS identified in this search were not available at the time the review was conducted for the purposes of the final rule.

The VCS ASTM D3154–00, ''Standard Method for Average Velocity in a Duct (Pitot Tube Method),'' is impractical as an alternative to EPA Methods 1, 2, 2C, 3, 3B, and 4 for the purposes of the final rule since the standard appears to lack in quality control and quality assurance requirements. Specifically, ASTM D3154–00 does not include the following: (1) Proof that openings of standard pitot tube have not plugged during the test; (2) if differential pressure gauges other than inclined manometers (*e.g.*, magnehelic gauges) are used, their calibration must be checked after each test series; and (3) the frequency and validity range for calibration of the temperature sensors.

The VCS ASTM D3464–96 (2001), ''Standard Test Method Average Velocity in a Duct Using a Thermal Anemometer,'' is impractical as an alternative to EPA Method 2 for the purposes of the final rule primarily because applicability specifications are not clearly defined, *e.g.*, range of gas composition, temperature limits. Also, the lack of supporting quality assurance data for the calibration procedures and specifications, and certain variability issues that are not adequately addressed by the standard limit EPA's ability to make a definitive comparison of the method in these areas.

The VCS ISO 10780:1994, ''Stationary Source Emissions–Measurement of Velocity and Volume Flowrate of Gas Streams in Ducts,'' is impractical as an alternative to EPA Method 2 in the final rule. The standard recommends the use of an L-shaped pitot which historically has not been recommended by EPA. The EPA specifies the S-type design which has large openings that are less likely to plug up with dust.

The VCS CAN/CSA Z223.2–M86(1986), ''Method for the Continuous Measurement of Oxygen, Carbon Dioxide, Carbon Monoxide, Sulphur Dioxide, and Oxides of Nitrogen in Enclosed Combustion Flue Gas Streams,'' is unacceptable as a substitute for EPA Method 3A since it does not include quantitative specifications for measurement system performance, most notably the calibration procedures and instrument performance characteristics. The instrument performance characteristics that are provided are nonmandatory and also do not provide the same level of quality assurance as the EPA methods. For example, the zero and span/calibration drift is only checked weekly, whereas the EPA methods require drift checks after each run.

Two very similar standards, ASTM D5835–95, ''Standard Practice for Sampling Stationary Source Emissions for Automated Determination of Gas Concentration,'' and ISO 10396:1993, ''Stationary Source Emissions: Sampling for the Automated Determination of Gas Concentrations,'' are impractical alternatives to EPA Method 3A for the purposes of the final rule because they lack in detail and quality assurance/quality control requirements. Specifically, these two standards do not include the following: (1) Sensitivity of the method; (2) acceptable levels of analyzer calibration error; (3) acceptable levels of sampling system bias; (4) zero drift and calibration drift limits, time span, and required testing frequency; (5) a method to test the interference response of the analyzer; (6) procedures to determine the minimum sampling time per run and minimum measurement time; and (7) specifications for data recorders in terms of resolution (all types) and recording intervals (digital and analog recorders, only).

The VCS ISO 12039:2001, ''Stationary Source Emissions—Determination of Carbon Monoxide, Carbon Dioxide, and Oxygen—Automated Methods,'' is not acceptable as an alternative to EPA Method 3A. This ISO standard is similar to EPA Method 3A, but is missing some key features. In terms of sampling, the hardware required by ISO 12039:2001 does not include a 3-way calibration valve assembly or equivalent to block the sample gas flow while calibration gases are introduced. In its calibration procedures, ISO 12039:2001 only specifies a two-point calibration while EPA Method 3A specifies a three-point calibration. Also, ISO 12039:2001 does not specify performance criteria for calibration error, calibration drift, or sampling system bias tests as in the EPA method, although checks of these quality control features are required by the ISO standard.

The VCS ISO 11890–1 (2000) part 1, ''Paints and Varnishes—Determination of Volatile Organic Compound (VOC) Content-Difference Method,'' is impractical as an alternative to EPA Method 24 because measured nonvolatile matter content can vary with experimental factors such as temperature, length of heating period, size of weighing dish, and size of sample. The standard ISO 11890–1 allows for different dish weights and sample sizes than the one size (58 millimeters in diameter and sample size of 0.5 gram) of EPA Method 24. The standard ISO 11890–1 also allows for different oven temperatures and heating times depending on the type of coating, whereas EPA Method 24 requires 60 minutes heating at 110 degrees Celcius at all times. Because the EPA Method 24 test conditions and procedures ''define'' volatile matter, ISO 11890–1 is unacceptable as an alternative because of its different test conditions.

The VCS ISO 11890–2 (2000) part 2, ''Paints and Varnishes—Determination of Volatile Organic Compound (VOC) Content-Gas Chromatographic Method,'' is impractical as an alternative to EPA Method 24 because ISO 11890–2 only measures the VOC added to the coating and would not measure any VOC generated from the curing of the coating. The EPA Method 24 does measure ''cure'' VOC which can be significant in some cases and, therefore, ISO 11890–2 is not an acceptable alternative to this EPA method.

Two VCS, EN 12619:1999 ''Stationary Source Emissions—Determination of the Mass Concentration of Total Gaseous Organic Carbon at Low Concentrations in Flue Gases—Continuous Flame Ionization Detector Method'' and ISO 14965:2000(E) ''Air Quality-Determination of Total Nonmethane Organic Compounds—Cryogenic Preconcentration and Direct Flame Ionization Method,'' are impractical alternatives to EPA Method 25 and 25A for the purposes of the final rule because the standards do not apply to solvent process vapors in concentrations greater than 40 parts per million (ppm) (EN 12619) and 10 ppm carbon (ISO 14965). Methods whose upper limits are this low are too limited to be useful in measuring source emissions, which are expected to be much higher.

Three of the 14 VCS identified in this search were not available at the time the review was conducted for the purposes of the final rule because they are under development by a VCS body: ASME/BSR MFC 13M, ''Flow Measurement by Velocity Traverse,'' for EPA Method 2 (and possibly 1); ASME/BSR MFC 12M, ''Flow in Closed Conduits Using Multiport Averaging Pitot Primary Flowmeters,'' for EPA Method 2; and ISO/CD 17895, ''Paints and Varnishes-Determination of the Volatile Organic Compound Content of Water-based Emulsion Paints,'' for EPA Method 24.

Sections 63.3320 and 63.3360 of the final rule list the EPA testing methods and PS included in the final rule. Under §§ 63.7(f) and 63.8(f) of subpart A of the General Provisions, a source may apply to EPA for permission to use alternative test methods or alternative monitoring requirements in place of any of the EPA testing methods, PS, or procedures.

J. Congressional Review Act

The Congressional Review Act, 5 U.S.C. 801, *et seq.*, as added by the SBREFA, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. The EPA will submit a report containing the rule and other required information to the United States Senate, the United States House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the **Federal Register**. A major rule cannot take effect until 60 days after it is published in the **Federal Register.** This action is not a ''major rule'' as defined by 5 U.S.C. 804(2). The rule will be effective December 4, 2002.

List of Subjects in 40 CFR Part 63

Environmental protection, Air pollution control, Hazardous substances, Incorporation by reference, Intergovernmental relations, Reporting and recordkeeping requirements.

Dated: November 8, 2002.

Christine T. Whitman,

Administrator.

For reasons set out in the preamble, title 40, chapter I, part 63 of the Code of Federal Regulations is amended as follows:

PART 63—[AMENDED]

1. The authority citation for part 63 continues to read as follows:

Authority: 42 U.S.C., 7401, *et seq.*

2. Part 63 is amended by revising § 63.14(i). The revision reads as follows:

§ 63.14 Incorporations by reference.

* * * * *

(i) The following material is available for purchase from at least one of the following addresses: ASME International, Orders/Inquiries, P.O. Box 2300, Fairfield, NJ 07007–2300; or Global Engineering Documents, Sales Department, 15 Inverness Way East, Englewood, CO 80112: ANSI/ASME PTC 19.10–1981, ''Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus],'' IBR approved for § 63.3360(e)(1)(iii), § 63.4166(a)(3), and § 63.5160(d)(1)(iii).

* * * * *

3. Part 63 is amended by adding subpart JJJJ to read as follows:

Subpart JJJJ—National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating

Sec.

What This Subpart Covers

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Tables to Subpart JJJJ of Part 63

Table 1 to Subpart JJJJ of Part 63. Operating Limits if Using Add-On Control Devices and Capture System
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What This Subpart Covers

63.3280 What is in this subpart?

This subpart describes the actions you must take to reduce emissions of organic hazardous air pollutants (HAP) from paper and other web coating operations. This subpart establishes emission standards for web coating lines and specifies what you must do to comply if you own or operate a facility with web coating lines that is a major source of HAP. Certain requirements apply to all who are subject to this subpart; others depend on the means you use to comply with an emission standard.

§ 63.3290 Does this subpart apply to me?

The provisions of this subpart apply to each new and existing facility that is a major source of HAP, as defined in § 63.2, at which web coating lines are operated.

§ 63.3300 Which of my emission sources are affected by this subpart?

The affected source subject to this subpart is the collection of all web coating lines at your facility. This includes web coating lines engaged in the coating of metal webs that are used in flexible packaging, and web coating lines engaged in the coating of fabric substrates for use in pressure sensitive tape and abrasive materials. Web coating lines specified in paragraphs (a) through (g) of this section are not part of the affected source of this subpart.

(a) Any web coating line that is stand-alone coating equipment under subpart KK of this part (national emission standards for the printing and publishing industry) which the owner or operator includes in the affected source under subpart KK.

(b) Any web coating line that is a product and packaging rotogravure or wide-web flexographic press under subpart KK of this part (national emission standards for the printing and publishing industry) which is included in the affected source under subpart KK.

(c) Web coating in lithography, screenprinting, letterpress, and narrow-web flexographic printing processes.

(d) Any web coating line subject to subpart EE of this part (national emission standards for magnetic tape manufacturing operations).

(e) Any web coating line that will be subject to the national emission standards for hazardous air pollutants (NESHAP) for surface coating of metal coil currently under development.

(f) Any web coating line that will be subject to the NESHAP for the printing, coating, and dyeing of fabric and other textiles currently under development. This would include any web coating line that coats both a paper or other web substrate and a fabric or other textile substrate, except for a fabric substrate used for pressure sensitive tape and abrasive materials.

(g) Any web coating line that is defined as research or laboratory equipment in § 63.3310.

§ 63.3310 What definitions are used in this subpart?

All terms used in this subpart that are not defined in this section have the meaning given to them in the Clean Air Act (CAA) and in subpart A of this part.

Always-controlled work station means a work station associated with a dryer from which the exhaust is delivered to a control device with no provision for the dryer exhaust to bypass the control device unless there is an interlock to interrupt and prevent continued coating during a bypass. Sampling lines for analyzers, relief valves needed for safety purposes, and periodic cycling of exhaust dampers to ensure safe operation are not considered bypass lines.

Applied means, for the purposes of this subpart, the amount of organic HAP, coating material, or coating solids (as appropriate for the emission standards in § 63.3320(b)) used by the affected source during the compliance period.

As-applied means the condition of a coating at the time of application to a substrate, including any added solvent.

As-purchased means the condition of a coating as delivered to the user.

Capture efficiency means the fraction of all organic HAP emissions generated by a process that is delivered to a control device, expressed as a percentage.

Capture system means a hood, enclosed room, or other means of collecting organic HAP emissions into a closed-vent system that exhausts to a control device.

Car-seal means a seal that is placed on a device that is used to change the position of a valve or damper (*e.g.*, from open to closed) in such a way that the position of the valve or damper cannot be changed without breaking the seal.

Coating material(s) means all inks, varnishes, adhesives, primers, solvents, reducers, and other coating materials applied to a substrate via a web coating line. Materials used to form a substrate are not considered coating materials.

Control device means a device such as a solvent recovery device or oxidizer which reduces the organic HAP in an exhaust gas by recovery or by destruction.

Control device efficiency means the ratio of organic HAP emissions recovered or destroyed by a control device to the total organic HAP emissions that are introduced into the control device, expressed as a percentage.

Day means a 24-consecutive-hour period.

Deviation means any instance in which an affected source, subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limitation (including any operating limit) or work practice standard;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation (including any operating limit) or work practice standard in this subpart during start-up, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Existing affected source means any affected source the construction or reconstruction of which is commenced on or before September 13, 2000, and has not undergone reconstruction as defined in § 63.2.

Fabric means any woven, knitted, plaited, braided, felted, or non-woven material made of filaments, fibers, or yarns including thread. This term includes material made of fiberglass, natural fibers, synthetic fibers, or composite materials.

Facility means all contiguous or adjoining property that is under common ownership or control, including properties that are separated only by a road or other public right-of-way.

Flexible packaging means any package or part of a package the shape of which can be readily changed. Flexible packaging includes, but is not limited to, bags, pouches, labels, liners

and wraps utilizing paper, plastic, film, aluminum foil, metalized or coated paper or film, or any combination of these materials.

Formulation data means data on the organic HAP mass fraction, volatile matter mass fraction, or coating solids mass fraction of a material that is generated by the manufacturer or means other than a test method specified in this subpart or an approved alternative method.

HAP means hazardous air pollutants.

HAP applied means the organic HAP content of all coating materials applied to a substrate by a web coating line at an affected source.

Intermittently-controlled work station means a work station associated with a dryer with provisions for the dryer exhaust to be delivered to or diverted from a control device through a bypass line, depending on the position of a valve or damper. Sampling lines for analyzers, relief valves needed for safety purposes, and periodic cycling of exhaust dampers to ensure safe operation are not considered bypass lines.

Metal coil means a continuous metal strip that is at least 0.15 millimeter (0.006 inch) thick which is packaged in a roll or coil prior to coating. After coating, it may or may not be rewound into a roll or coil. Metal coil does not include metal webs that are coated for use in flexible packaging.

Month means a calendar month or a pre-specified period of 28 days to 35 days to allow for flexibility in recordkeeping when data are based on a business accounting period.

Never-controlled work station means a work station that is not equipped with provisions by which any emissions, including those in the exhaust from any associated dryer, may be delivered to a control device.

New affected source means any affected source the construction or reconstruction of which is commenced after September 13, 2000.

Overall organic HAP control efficiency means the total efficiency of a capture and control system.

Pressure sensitive tape means a flexible backing material with a pressure-sensitive adhesive coating on one or both sides of the backing. Examples include, but are not limited to, duct/duct insulation tape and medical tape.

Research or laboratory equipment means any equipment for which the primary purpose is to conduct research and development into new processes and products where such equipment is operated under the close supervision of technically trained personnel and is not engaged in the manufacture of products for commercial sale in commerce except in a *de minimis* manner.

Rewind or cutting station means a unit from which substrate is collected at the outlet of a web coating line.

Uncontrolled coating line means a coating line consisting of only never-controlled work stations.

Unwind or feed station means a unit from which substrate is fed to a web coating line.

Web means a continuous substrate (*e.g.*, paper, film, foil) which is flexible enough to be wound or unwound as rolls.

Web coating line means any number of work stations, of which one or more applies a continuous layer of coating material across the entire width or any portion of the width of a web substrate, and any associated curing/drying equipment between an unwind or feed station and a rewind or cutting station.

Work station means a unit on a web coating line where coating material is deposited onto a web substrate.

Emission Standards and Compliance Dates

§ 63.3320 What emission standards must I meet?

(a) If you own or operate any affected source that is subject to the requirements of this subpart, you must comply with these requirements on and after the compliance dates as specified in § 63.3330.

(b) You must limit organic HAP emissions to the level specified in paragraph (b)(1), (2), (3), or (4) of this section.

(1) No more than 5 percent of the organic HAP applied for each month (95 percent reduction) at existing affected sources, and no more than 2 percent of the organic HAP applied for each month (98 percent reduction) at new affected sources; or

(2) No more than 4 percent of the mass of coating materials applied for each month at existing affected sources, and no more than 1.6 percent of the mass of coating materials applied for each month at new affected sources; or

(3) No more than 20 percent of the mass of coating solids applied for each month at existing affected sources, and no more than 8 percent of the coating solids applied for each month at new affected sources.

(4) If you use an oxidizer to control organic HAP emissions, operate the oxidizer such that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) by compound on a dry basis is achieved and the efficiency of the capture system is 100 percent.

(c) You must demonstrate compliance with this subpart by following the procedures in § 63.3370.

§ 63.3321 What operating limits must I meet?

(a) For any web coating line or group of web coating lines for which you use add-on control devices, unless you use a solvent recovery system and conduct a liquid-liquid material balance, you must meet the operating limits specified in Table 1 to this subpart or according to paragraph (b) of this section. These operating limits apply to emission capture systems and control devices, and you must establish the operating limits during the performance test according to the requirements in § 63.3360(e)(3). You must meet the operating limits at all times after you establish them.

(b) If you use an add-on control device other than those listed in Table 1 to this subpart or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Administrator for approval of alternative monitoring under § 63.8(f).

§ 63.3330 When must I comply?

(a) If you own or operate an existing affected source subject to the provisions of this subpart, you must comply by the compliance date. The compliance date for existing affected sources in this subpart is December 5, 2005. You must complete any performance test required in § 63.3360 within the time limits specified in § 63.7(a)(2).

(b) If you own or operate a new affected source subject to the provisions of this subpart, your compliance date is immediately upon start-up of the new affected source or by December 4, 2002, whichever is later. You must complete any performance test required in § 63.3360 within the time limits specified in § 63.7(a)(2).

(c) If you own or operate a reconstructed affected source subject to the provisions of this subpart, your compliance date is immediately upon startup of the affected source or by December 4, 2002, whichever is later. Existing affected sources which have undergone reconstruction as defined in § 63.2 are subject to the requirements for new affected sources. The costs associated with the purchase and installation of air pollution control equipment are not considered in determining whether the existing affected source has been reconstructed. Additionally, the costs of retrofitting and replacing of equipment that is installed specifically to comply with this subpart are not considered reconstruction costs. You must

complete any performance test required in § 63.3360 within the time limits specified in § 63.7(a)(2).

General Requirements for Compliance With the Emission Standards and for Monitoring and Performance Tests

§ 63.3340 What general requirements must I meet to comply with the standards?

Table 2 to this subpart specifies the provisions of subpart A of this part that apply if you are subject to this subpart, such as startup, shutdown, and malfunction plans (SSMP) in § 63.6(e)(3) for affected sources using a control device to comply with the emission standards.

§ 63.3350 If I use a control device to comply with the emission standards, what monitoring must I do?

(a) A summary of monitoring you must do follows:

If you operate a web coating line, and have the following:	Then you must:
(1) Intermittently-controlled work stations	Record parameters related to possible exhaust flow bypass of control device and to coating use (§ 63.3350(c)).
(2) Solvent recovery unit	Operate continuous emission monitoring system and perform quarterly audits or determine volatile matter recovered and conduct a liquid-liquid material balance (§ 63.3350(d)).
(3) Control Device	Operate continuous parameter monitoring system (§ 63.3350(e)).
(4) Capture system	Monitor capture system operating parameter (§ 63.3350(f)).

(b) Following the date on which the initial performance test of a control device is completed to demonstrate continuing compliance with the standards, you must monitor and inspect each capture system and each control device used to comply with § 63.3320. You must install and operate the monitoring equipment as specified in paragraphs (c) and (f) of this section.

(c) *Bypass and coating use monitoring.* If you own or operate web coating lines with intermittently-controlled work stations, you must monitor bypasses of the control device and the mass of each coating material applied at the work station during any such bypass. If using a control device for complying with the requirements of this subpart, you must demonstrate that any coating material applied on a never-controlled work station or an intermittently-controlled work station operated in bypass mode is allowed in your compliance demonstration according to § 63.3370(n) and (o). The bypass monitoring must be conducted using at least one of the procedures in paragraphs (c)(1) through (4) of this section for each work station and associated dryer.

(1) *Flow control position indicator.* Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that provides a record indicating whether the exhaust stream from the dryer was directed to the control device or was diverted from the control device. The time and flow control position must be recorded at least once per hour as well as every time the flow direction is changed. A flow control position indicator must be installed at the entrance to any bypass line that could divert the exhaust stream away from the control device to the atmosphere.

(2) *Car-seal or lock-and-key valve closures.* Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve or damper is maintained in the closed position, and the exhaust stream is not diverted through the bypass line.

(3) *Valve closure continuous monitoring.* Ensure that any bypass line valve or damper is in the closed position through continuous monitoring of valve position when the emission source is in operation and is using a control device for compliance with the requirements of this subpart. The monitoring system must be inspected at least once every month to verify that the monitor will indicate valve position.

(4) *Automatic shutdown system.* Use an automatic shutdown system in which the web coating line is stopped when flow is diverted away from the control device to any bypass line when the control device is in operation. The automatic system must be inspected at least once every month to verify that it will detect diversions of flow and would shut down operations in the event of such a diversion.

(d) *Solvent recovery unit.* If you own or operate a solvent recovery unit to comply with § 63.3320, you must meet the requirements in either paragraph (d)(1) or (2) of this section depending on how control efficiency is determined.

(1) *Continuous emission monitoring system (CEMS).* If you are demonstrating compliance with the emission standards in § 63.3320 through continuous emission monitoring of a control device, you must install, calibrate, operate, and maintain the CEMS according to paragraphs (d)(1)(i) through (iii) of this section.

(i) Measure the total organic volatile matter mass flow rate at both the control device inlet and the outlet such that the reduction efficiency can be determined. Each continuous emission monitor must comply with performance specification 6, 8, or 9 of 40 CFR part 60, appendix B, as appropriate.

(ii) You must follow the quality assurance procedures in procedure 1, appendix F of 40 CFR part 60. In conducting the quarterly audits of the monitors as required by procedure 1, appendix F, you must use compounds representative of the gaseous emission stream being controlled.

(iii) You must have valid data from at least 90 percent of the hours during which the process is operated.

(2) *Liquid-liquid material balance.* If you are demonstrating compliance with the emission standards in § 63.3320 through liquid-liquid material balance, you must install, calibrate, maintain, and operate according to the manufacturer's specifications a device that indicates the cumulative amount of volatile matter recovered by the solvent recovery device on a monthly basis. The device must be certified by the manufacturer to be accurate to within ±2.0 percent by mass.

(e) *Continuous parameter monitoring system (CPMS).* If you are using a control device to comply with the emission standards in § 63.3320, you must install, operate, and maintain each CPMS specified in paragraphs (e)(9) and (10) and (f) of this section according to the requirements in paragraphs (e)(1) through (8) of this section. You must install, operate, and maintain each CPMS specified in paragraph (c) of this section according to paragraphs (e)(5) through (7) of this section.

(1) Each CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four equally spaced successive cycles of CPMS operation to have a valid hour of data.

(2) You must have valid data from at least 90 percent of the hours during which the process operated.

(3) You must determine the hourly average of all recorded readings according to paragraphs (e)(3)(i) and (ii) of this section.

(i) To calculate a valid hourly value, you must have at least three of four equally spaced data values from that hour from a continuous monitoring system (CMS) that is not out-of-control.

(ii) Provided all of the readings recorded in accordance with paragraph (e)(3) of this section clearly demonstrate continuous compliance with the standard that applies to you, then you are not required to determine the hourly average of all recorded readings.

(4) You must determine the rolling 3-hour average of all recorded readings for each operating period. To calculate the average for each 3-hour averaging period, you must have at least two of three of the hourly averages for that period using only average values that are based on valid data (*i.e.*, not from out-of-control periods).

(5) You must record the results of each inspection, calibration, and validation check of the CPMS.

(6) At all times, you must maintain the monitoring system in proper working order including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(7) Except for monitoring malfunctions, associated repairs, or required quality assurance or control activities (including calibration checks or required zero and span adjustments), you must conduct all monitoring at all times that the unit is operating. Data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities shall not be used for purposes of calculating the emissions concentrations and percent reductions specified in § 63.3370. You must use all the valid data collected during all other periods in assessing compliance of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(8) Any averaging period for which you do not have valid monitoring data and such data are required constitutes a deviation, and you must notify the Administrator in accordance with § 63.3400(c).

(9) *Oxidizer.* If you are using an oxidizer to comply with the emission standards, you must comply with paragraphs (e)(9)(i) through (iii) of this section.

(i) Install, calibrate, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications. The calibration of the chart recorder, data logger, or temperature indicator must be verified every 3 months or the chart recorder, data logger, or temperature indicator must be replaced. You must replace the equipment whether you choose not to perform the calibration or the equipment cannot be calibrated properly.

(ii) For an oxidizer other than a catalytic oxidizer, install, calibrate, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must have an accuracy of ±1 percent of the temperature being monitored in degrees Celsius, or ±1° Celsius, whichever is greater. The thermocouple or temperature sensor must be installed in the combustion chamber at a location in the combustion zone.

(iii) For a catalytic oxidizer, install, calibrate, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of ±1 percent of the temperature being monitored in degrees Celsius or ± 1 degree Celsius, whichever is greater. The thermocouple or temperature sensor must be installed in the vent stream at the nearest feasible point to the inlet and outlet of the catalyst bed. Calculate the temperature rise across the catalyst.

(10) *Other types of control devices.* If you use a control device other than an oxidizer or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Administrator for approval of an alternative monitoring method under § 63.8(f).

(f) *Capture system monitoring.* If you are complying with the emission standards in § 63.3320 through the use of a capture system and control device for one or more web coating lines, you must develop a site-specific monitoring plan containing the information specified in paragraphs (f)(1) and (2) of this section for these capture systems. You must monitor the capture system in accordance with paragraph (f)(3) of this section. You must make the monitoring plan available for inspection by the permitting authority upon request.

(1) The monitoring plan must:

(i) Identify the operating parameter to be monitored to ensure that the capture efficiency determined during the initial compliance test is maintained; and

(ii) Explain why this parameter is appropriate for demonstrating ongoing compliance; and

(iii) Identify the specific monitoring procedures.

(2) The monitoring plan must specify the operating parameter value or range of values that demonstrate compliance with the emission standards in § 63.3320. The specified operating parameter value or range of values must represent the conditions present when the capture system is being properly operated and maintained.

(3) You must conduct all capture system monitoring in accordance with the plan.

(4) Any deviation from the operating parameter value or range of values which are monitored according to the plan will be considered a deviation from the operating limit.

(5) You must review and update the capture system monitoring plan at least annually.

§ 63.3360 What performance tests must I conduct?

(a) The performance test methods you must conduct are as follows:

If you control organic HAP on any individual web coating line or any group of web coating lines by:	You must:
(1) Limiting organic HAP or volatile matter content of coatings.	Determine the organic HAP or volatile matter and coating solids content of coating materials according to procedures in § 63.3360(c) and (d). If applicable, determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere according to § 63.3360(g).

If you control organic HAP on any individual web coating line or any group of web coating lines by:	You must:
(2) Using a capture and control system.	Conduct a performance test for each capture and control system to determine: the destruction or removal efficiency of each control device other than solvent recovery according to § 63.3360(e), and the capture efficiency of each capture system according to § 63.3360(f). If applicable, determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere according to § 63.3360(g).

(b) If you are using a control device to comply with the emission standards in § 63.3320, you are not required to conduct a performance test to demonstrate compliance if one or more of the criteria in paragraphs (b)(1) through (3) of this section are met.

(1) The control device is equipped with continuous emission monitors for determining inlet and outlet total organic volatile matter concentration and capture efficiency has been determined in accordance with the requirements of this subpart such that an overall organic HAP control efficiency can be calculated, and the continuous emission monitors are used to demonstrate continuous compliance in accordance with § 63.3350; or

(2) You have met the requirements of § 63.7(h) (for waiver of performance testing; or

(3) The control device is a solvent recovery system and you comply by means of a monthly liquid-liquid material balance.

(c) *Organic HAP content.* If you determine compliance with the emission standards in § 63.3320 by means other than determining the overall organic HAP control efficiency of a control device, you must determine the organic HAP mass fraction of each coating material ''as-purchased'' by following one of the procedures in paragraphs (c)(1) through (3) of this section, and determine the organic HAP mass fraction of each coating material ''as-applied'' by following the procedures in paragraph (c)(4) of this section. If the organic HAP content values are not determined using the procedures in paragraphs (c)(1) through (3) of this section, the owner or operator must submit an alternative test method for determining their values for approval by the Administrator in accordance with § 63.7(f). The recovery efficiency of the test method must be determined for all of the target organic HAP and a correction factor, if necessary, must be determined and applied.

(1) *Method 311.* You may test the coating material in accordance with Method 311 of appendix A of this part. The Method 311 determination may be performed by the manufacturer of the coating material and the results provided to the owner or operator. The organic HAP content must be calculated according to the criteria and procedures in paragraphs (c)(1)(i) through (iii) of this section.

(i) Include each organic HAP determined to be present at greater than or equal to 0.1 mass percent for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and greater than or equal to 1.0 mass percent for other organic HAP compounds.

(ii) Express the mass fraction of each organic HAP you include according to paragraph (c)(1)(i) of this section as a value truncated to four places after the decimal point (for example, 0.3791).

(iii) Calculate the total mass fraction of organic HAP in the tested material by summing the counted individual organic HAP mass fractions and truncating the result to three places after the decimal point (for example, 0.763).

(2) *Method 24.* For coatings, determine the volatile organic content as mass fraction of nonaqueous volatile matter and use it as a substitute for organic HAP using Method 24 of 40 CFR part 60, appendix A. The Method 24 determination may be performed by the manufacturer of the coating and the results provided to you.

(3) *Formulation data.* You may use formulation data to determine the organic HAP mass fraction of a coating material. Formulation data may be provided to the owner or operator by the manufacturer of the material. In the event of an inconsistency between Method 311 (appendix A of 40 CFR part 63) test data and a facility's formulation data, and the Method 311 test value is higher, the Method 311 data will govern. Formulation data may be used provided that the information represents all organic HAP present at a level equal to or greater than 0.1 percent for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and equal to or greater than 1.0 percent for other organic HAP compounds in any raw material used.

(4) *As-applied organic HAP mass fraction.* If the as-purchased coating material is applied to the web without any solvent or other material added, then the as-applied organic HAP mass fraction is equal to the as-purchased organic HAP mass fraction. Otherwise, the as-applied organic HAP mass fraction must be calculated using Equation 1a of § 63.3370.

(d) *Volatile organic and coating solids content.* If you determine compliance with the emission standards in § 63.3320 by means other than determining the overall organic HAP control efficiency of a control device and you choose to use the volatile organic content as a surrogate for the organic HAP content of coatings, you must determine the as-purchased volatile organic content and coating solids content of each coating material applied by following the procedures in paragraph (d)(1) or (2) of this section, and the as-applied volatile organic content and coating solids content of each coating material by following the procedures in paragraph (d)(3) of this section.

(1) *Method 24.* You may determine the volatile organic and coating solids mass fraction of each coating applied using Method 24 (40 CFR part 60, appendix A.) The Method 24 determination may be performed by the manufacturer of the material and the results provided to you. If these values cannot be determined using Method 24, you must submit an alternative technique for determining their values for approval by the Administrator.

(2) *Formulation data.* You may determine the volatile organic content and coating solids content of a coating material based on formulation data and may rely on volatile organic content data provided by the manufacturer of the material. In the event of any inconsistency between the formulation data and the results of Method 24 of 40 CFR part 60, appendix A, and the Method 24 results are higher, the results of Method 24 will govern.

(3) *As-applied volatile organic content and coating solids content.* If the as-purchased coating material is applied to the web without any solvent or other material added, then the as-applied volatile organic content is equal to the as-purchased volatile content and the as-applied coating solids content is equal to the as-purchased coating solids content. Otherwise, the as-applied volatile organic content must be

calculated using Equation 1b of § 63.3370 and the as-applied coating solids content must be calculated using Equation 2 of § 63.3370.

(e) *Control device efficiency.* If you are using an add-on control device other than solvent recovery, such as an oxidizer, to comply with the emission standards in § 63.3320, you must conduct a performance test to establish the destruction or removal efficiency of the control device according to the methods and procedures in paragraphs (e)(1) and (2) of this section. During the performance test, you must establish the operating limits required by § 63.3321 according to paragraph (e)(3) of this section.

(1) An initial performance test to establish the destruction or removal efficiency of the control device must be conducted such that control device inlet and outlet testing is conducted simultaneously, and the data are reduced in accordance with the test methods and procedures in paragraphs (e)(1)(i) through (ix) of this section. You must conduct three test runs as specified in § 63.7(e)(3), and each test run must last at least 1 hour.

(i) Method 1 or 1A of 40 CFR part 60, appendix A, must be used for sample and velocity traverses to determine sampling locations.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G of 40 CFR part 60, appendix A, must be used to determine gas volumetric flow rate.

(iii) Method 3, 3A, or 3B of 40 CFR part 60, appendix A, must be used for gas analysis to determine dry molecular weight. You may also use as an alternative to Method 3B the manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas in ANSI/ASME PTC 19.10–1981, ''Flue and Exhaust Gas Analyses [Part 10, Instruments and Apparatus],'' (incorporated by reference, see § 63.14).

(iv) Method 4 of 40 CFR part 60, appendix A, must be used to determine stack gas moisture.

(v) The gas volumetric flow rate, dry molecular weight, and stack gas moisture must be determined during each test run specified in paragraph (f)(1)(vii) of this section.

(vi) Method 25 or 25A of 40 CFR part 60, appendix A, must be used to determine total gaseous non-methane organic matter concentration. Use the same test method for both the inlet and outlet measurements which must be conducted simultaneously. You must submit notice of the intended test method to the Administrator for approval along with notification of the performance test required under § 63.7(b). You must use Method 25A if any of the conditions described in paragraphs (e)(1)(vi)(A) through (D) of this section apply to the control device.

(A) The control device is not an oxidizer.

(B) The control device is an oxidizer but an exhaust gas volatile organic matter concentration of 50 ppmv or less is required to comply with the emission standards in § 63.3320; or

(C) The control device is an oxidizer but the volatile organic matter concentration at the inlet to the control system and the required level of control are such that they result in exhaust gas volatile organic matter concentrations of 50 ppmv or less; or

(D) The control device is an oxidizer but because of the high efficiency of the control device the anticipated volatile organic matter concentration at the control device exhaust is 50 ppmv or less, regardless of inlet concentration.

(vii) Except as provided in § 63.7(e)(3), each performance test must consist of three separate runs with each run conducted for at least 1 hour under the conditions that exist when the affected source is operating under normal operating conditions. For the purpose of determining volatile organic compound concentrations and mass flow rates, the average of the results of all the runs will apply.

(viii) Volatile organic matter mass flow rates must be determined for each run specified in paragraph (e)(1)(vii) of this section using Equation 1 of this section:

$$M_f = Q_{sd} C_c [12][0.0416]\left[10^{-6}\right] \quad \text{Eq. 1}$$

Where:

M_f = Total organic volatile matter mass flow rate, kilograms (kg)/hour (h).

Q_{sd} = Volumetric flow rate of gases entering or exiting the control device, as determined according to § 63.3360(e)(1)(ii), dry standard cubic meters (dscm)/h.

C_c = Concentration of organic compounds as carbon, ppmv.

12.0 = Molecular weight of carbon.

0.0416 = Conversion factor for molar volume, kg-moles per cubic meter (mol/m^3) (@ 293 Kelvin (K) and 760 millimeters of mercury (mmHg)).

(ix) For each run, emission control device destruction or removal efficiency must be determined using Equation 2 of this section:

$$E = \frac{M_{fi} - M_{fo}}{M_{fi}} \times 100 \quad \text{Eq. 2}$$

Where:

E = Organic volatile matter control efficiency of the control device, percent.

M_{fi} = Organic volatile matter mass flow rate at the inlet to the control device, kg/h.

M_{fo} = Organic volatile matter mass flow rate at the outlet of the control device, kg/h.

(x) The control device destruction or removal efficiency is determined as the average of the efficiencies determined in the test runs and calculated in Equation 2 of this section.

(2) You must record such process information as may be necessary to determine the conditions in existence at the time of the performance test. Operations during periods of startup, shutdown, and malfunction will not constitute representative conditions for the purpose of a performance test.

(3) *Operating limits.* If you are using one or more add-on control device other than a solvent recovery system for which you conduct a liquid-liquid material balance to comply with the emission standards in § 63.3320, you must establish the applicable operating limits required by § 63.3321. These operating limits apply to each add-on emission control device, and you must establish the operating limits during the performance test required by paragraph (e) of this section according to the requirements in paragraphs (e)(3)(i) and (ii) of this section.

(i) *Thermal oxidizer.* If your add-on control device is a thermal oxidizer, establish the operating limits according to paragraphs (e)(3)(i)(A) and (B) of this section.

(A) During the performance test, you must monitor and record the combustion temperature at least once every 15 minutes during each of the three test runs. You must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs.

(B) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. This average combustion temperature is the minimum operating limit for your thermal oxidizer.

(ii) *Catalytic oxidizer.* If your add-on control device is a catalytic oxidizer, establish the operating limits according to paragraphs (e)(3)(ii)(A) and (B) or paragraphs (e)(3)(ii)(C) and (D) of this section.

(A) During the performance test, you must monitor and record the temperature just before the catalyst bed and the temperature difference across

the catalyst bed at least once every 15 minutes during each of the three test runs.

(B) Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed and the average temperature difference across the catalyst bed maintained during the performance test. These are the minimum operating limits for your catalytic oxidizer.

(C) As an alternative to monitoring the temperature difference across the catalyst bed, you may monitor the temperature at the inlet to the catalyst bed and implement a site-specific inspection and maintenance plan for your catalytic oxidizer as specified in paragraph (e)(3)(ii)(D) of this section. During the performance test, you must monitor and record the temperature just before the catalyst bed at least once every 15 minutes during each of the three test runs. Use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed during the performance test. This is the minimum operating limit for your catalytic oxidizer.

(D) You must develop and implement an inspection and maintenance plan for your catalytic oxidizer(s) for which you elect to monitor according to paragraph (e)(3)(ii)(C) of this section. The plan must address, at a minimum, the elements specified in paragraphs (e)(3)(ii)(D)(*1*) through (*3*) of this section.

(*1*) Annual sampling and analysis of the catalyst activity (*i.e.*, conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures,

(*2*) Monthly inspection of the oxidizer system including the burner assembly and fuel supply lines for problems, and

(*3*) Annual internal and monthly external visual inspection of the catalyst bed to check for channeling, abrasion, and settling. If problems are found, you must take corrective action consistent with the manufacturer's recommendations and conduct a new performance test to determine destruction efficiency in accordance with this section.

(f) *Capture efficiency.* If you demonstrate compliance by meeting the requirements of § 63.3370(e), (f), (g), (h), (i)(2), (k), (n)(2) or (3), or (p), you must determine capture efficiency using the procedures in paragraph (f)(1), (2), or (3) of this section, as applicable.

(1) You may assume your capture efficiency equals 100 percent if your capture system is a permanent total enclosure (PTE). You must confirm that your capture system is a PTE by demonstrating that it meets the requirements of section 6 of EPA Method 204 of 40 CFR part 51, appendix M, and that all exhaust gases from the enclosure are delivered to a control device.

(2) You may determine capture efficiency according to the protocols for testing with temporary total enclosures that are specified in Methods 204 and 204A through F of 40 CFR part 51, appendix M. You may exclude never-controlled work stations from such capture efficiency determinations.

(3) You may use any capture efficiency protocol and test methods that satisfy the criteria of either the Data Quality Objective or the Lower Confidence Limit approach as described in appendix A of subpart KK of this part. You may exclude never-controlled work stations from such capture efficiency determinations.

(g) *Volatile matter retained in the coated web or otherwise not emitted to the atmosphere.* You may choose to take into account the mass of volatile matter retained in the coated web after curing or drying or otherwise not emitted to the atmosphere when determining compliance with the emission standards in § 63.3320. If you choose this option, you must develop a testing protocol to determine the mass of volatile matter retained in the coated web or otherwise not emitted to the atmosphere and submit this protocol to the Administrator for approval. You must submit this protocol with your site-specific test plan under § 63.7(f). If you intend to take into account the mass of volatile matter retained in the coated web after curing or drying or otherwise not emitted to the atmosphere and demonstrate compliance according to § 63.3370(c)(3), (c)(4), (c)(5), or (d), then the test protocol you submit must determine the mass of organic HAP retained in the coated web or otherwise not emitted to the atmosphere. Otherwise, compliance must be shown using the volatile organic matter content as a surrogate for the HAP content of the coatings.

(h) *Control devices in series.* If you use multiple control devices in series to comply with the emission standards in § 63.3320, the performance test must include, at a minimum, the inlet to the first control device in the series, the outlet of the last control device in the series, and all intermediate streams (*e.g.*, gaseous exhaust to the atmosphere or a liquid stream from a recovery device) that are not subsequently treated by any of the control devices in the series.

Requirements for Showing Compliance

§ 63.3370 How do I demonstrate compliance with the emission standards?

(a) A summary of how you must demonstrate compliance follows:

If you choose to demonstrate compliance by:	Then you must demonstrate that:	To accomplish this:
(1) Use of ''as-purchased'' compliant coating materials.	(i) Each coating material used at an existing affected source does not exceed 0.04 kg organic HAP per kg coating material, and each coating material used at a new affected source does not exceed 0.016 kg organic HAP per kg coating material as-purchased; or.	Follow the procedures set out in § 63.3370(b).
	(ii) Each coating material used at an existing affected source does not exceed 0.2 kg organic HAP per kg coating solids, and each coating material used at a new affected source does not exceed 0.08 kg organic HAP per kg coating solids as-purchased.	Follow the procedures set out in § 63.3370(b).
(2) Use of ''as-applied'' compliant coating materials.	(i) Each coating material used at an existing affected source does not exceed 0.04 kg organic HAP per kg coating material, and each coating material used at a new affected source does not exceed 0.016 kg organic HAP per kg coating material as-applied; or.	Follow the procedures set out in § 63.3370(c)(1). Use either Equation 1a or b of § 63.3370 to determine compliance with § 63.3320(b)(2) in accordance with § 63.3370(c)(5)(i).

If you choose to demonstrate compliance by:	Then you must demonstrate that:	To accomplish this:
	(ii) Each coating material used at an existing affected source does not exceed 0.2 kg organic HAP per kg coating solids, and each coating material used at a new affected source does not exceed 0.08 kg organic HAP per kg coating solids as-applied; or.	Follow the procedures set out in § 63.3370(c)(2). Use Equations 2 and 3 of § 63.3370 to determine compliance with § 63.3320(b)(3) in accordance with § 63.3370(c)(5)(i).
	(iii) Monthly average of all coating materials used at an existing affected source does not exceed 0.04 kg organic HAP per kg coating material, and monthly average of all coating materials used at a new affected source does not exceed 0.016 kg organic HAP per kg coating material as-applied on a monthly average basis; or.	Follow the procedures set out in § 63.3370(c)(3). Use Equation 4 of § 63.3370 to determine compliance with § 63.3320(b)(2) in accordance with § 63.3370(c)(5)(ii).
	(iv) Monthly average of all coating materials used at an existing affected source does not exceed 0.2 kg organic HAP per kg coating solids, and monthly average of all coating materials used at a new affected source does not exceed 0.08 kg organic HAP per kg coating solids as-applied on a monthly average basis.	Follow the procedures set out in § 63.3370(c)(4). Use Equation 5 of § 63.3370 to determine compliance with § 63.3320(b)(3) in accordance with § 63.3370(c)(5)(ii).
(3) Tracking total monthly organic HAP applied	Total monthly organic HAP applied does not exceed the calculated limit based on emission limitations.	Follow the procedures set out in § 63.3370(d). Show that total monthly HAP applied (Equation 6 of § 63.3370) is less than the calculated equivalent allowable organic HAP (Equation 13a or b of § 63.3370).
(4) Use of a capture system and control device	(i) Overall organic HAP control efficiency is equal to 95 percent at an existing affected source and 98 percent at a new affected source on a monthly basis; or oxidizer outlet organic HAP concentration is no greater than 20 ppmv by compound and capture efficiency is 100 percent; or operating parameters are continuously monitored; or.	Follow the procedures set out in § 63.3370(e) to determine compliance with § 63.3320(b)(1) according to § 63.3370(i) if using a solvent recovery device, or § 63.3370(j) if using a control device and CPMS, or § 63.3370(k) if using an oxidizer.
	(ii) Overall organic HAP emission rate does not exceed 0.2 kg organic HAP per kg coating solids for an existing affected source or 0.08 kg organic HAP per kg coating solids for a new affected source on a monthly average as-applied basis;.	Follow the procedures set out in § 63.3370(f) to determine compliance with § 63.3320(b)(3) according to § 63.3370(i) if using a solvent recovery device, or § 63.3370(k) if using an oxidizer.
	(iii) Overall organic HAP emission rate does not exceed 0.04 kg organic HAP per kg coating material for an existing affected source or 0.016 kg organic HAP per kg coating material for a new affected source on a monthly average as-applied basis; or.	Follow the procedures set out in § 63.3370(g) to determine compliance with § 63.3320(b)(2) according to § 63.3370(i) if using a solvent recovery device, or § 63.3370(k) if using an oxidizer.
	(iv) Overall organic HAP emission rate does not exceed the calculated limit based on emission limitations.	Follow the procedures set out in § 63.3370(h). Show that the monthly organic HAP emission rate is less than the calculated equivalent allowable organic HAP emission rate (Equation 13a or b of § 63.3370). Calculate the monthly organic HAP emission rate according to § 63.3370(i) if using a solvent recovery device, or § 63.3370(k) if using an oxidizer.
(5) Use of multiple capture and/or control devices.	(i) Overall organic HAP control efficiency is equal to 95 percent at an existing affected source and 98 percent at a new affected source on a monthly basis; or.	Follow the procedures set out in § 63.3370(e) to determine compliance with § 63.3320(b)(1) according to § 63.3370(e)(1) or (2).
	(ii) Average equivalent organic HAP emission rate does not exceed 0.2 kg organic HAP per kg coating solids for an existing affected source or 0.08 kg organic HAP per kg coating solids for a new affected source on a monthly average as-applied basis; or.	Follow the procedures set out in § 63.3370(f) to determine compliance with § 63.3320(b)(3) according to § 63.3370(n).
	(iii) Average equivalent organic HAP emission rate does not exceed 0.04 kg organic HAP per kg coating material for an existing affected source or 0.016 kg organic HAP per kg coating material for a new affected source on a monthly average as-applied basis; or.	Follow the procedures set out in § 63.3370(g) to determine compliance with § 63.3320(b)(2) according to § 63.3370(n).

If you choose to demonstrate compliance by:	Then you must demonstrate that:	To accomplish this:
	(iv) Average equivalent organic HAP emission rate does not exceed the calculated limit based on emission limitations.	Follow the procedures set out in § 63.3370(h). Show that the monthly organic HAP emission rate is less than the calculated equivalent allowable organic HAP emission rate (Equation 13a or b of § 63.3370) according to § 63.3370(n).
(6) Use of a combination of compliant coatings and control devices.	(i) Average equivalent organic HAP emission rate does not exceed 0.2 kg organic HAP per kg coating solids for an existing affected source or 0.08 kg organic HAP per kg coating solids for a new affected source on a monthly average as-applied basis; or.	Follow the procedures set out in § 63.3370(f) to determine compliance with § 63.3320(b)(3) according to § 63.3370(n).
	(ii) Average equivalent organic HAP emission rate does not exceed 0.04 kg organic HAP per kg coating material for an existing affected source or 0.016 kg organic HAP per kg coating material for a new affected source on a monthly average as-applied basis; or.	Follow the procedures set out in § 63.3370(g) to determine compliance with § 63.3320(b)(2) according to § 63.3370(n).
	(iii) Average equivalent organic HAP emission rate does not exceed the calculated limit based on emission limitations.	Follow the procedures set out in § 63.3370(h). Show that the monthly organic HAP emission rate is less than the calculated equivalent allowable organic HAP emission rate (Equation 13a or b of § 63.3370) according to § 63.3370(n).

(b) *As-purchased ''compliant'' coating materials.*

(1) If you comply by using coating materials that individually meet the emission standards in § 63.3320(b)(2) or (3), you must demonstrate that each coating material applied during the month at an existing affected source contains no more than 0.04 mass fraction organic HAP or 0.2 kg organic HAP per kg coating solids, and that each coating material applied during the month at a new affected source contains no more than 0.016 mass fraction organic HAP or 0.08 kg organic HAP per kg coating solids on an as-purchased basis as determined in accordance with § 63.3360(c).

(2) You are in compliance with emission standards in § 63.3320(b)(2) and (3) if each coating material applied at an existing affected source is applied as-purchased and contains no more than 0.04 kg organic HAP per kg coating material or 0.2 kg organic HAP per kg coating solids, and each coating material applied at a new affected source is applied as-purchased and contains no more than 0.016 kg organic HAP per kg coating material or 0.08 kg organic HAP per kg coating solids.

(c) *As-applied ''compliant'' coating materials.* If you comply by using coating materials that meet the emission standards in § 63.3320(b)(2) or (3) as-applied, you must demonstrate compliance by following one of the procedures in paragraphs (c)(1) through (4) of this section. Compliance is determined in accordance with paragraph (c)(5) of this section.

(1) *Each coating material as-applied meets the mass fraction of coating material standard (§ 63.3320(b)(2)).* You must demonstrate that each coating material applied at an existing affected source during the month contains no more than 0.04 kg organic HAP per kg coating material applied, and each coating material applied at a new affected source contains no more than 0.016 kg organic HAP per kg coating material applied as determined in accordance with paragraphs (c)(1)(i) and (ii) of this section. You must calculate the as-applied organic HAP content of as-purchased coating materials which are reduced, thinned, or diluted prior to application.

(i) Determine the organic HAP content or volatile organic content of each coating material applied on an as-purchased basis in accordance with § 63.3360(c).

(ii) Calculate the as-applied organic HAP content of each coating material using Equation 1a of this section:

$$C_{ahi} = \frac{\left(C_{hi}M_i + \sum_{j=1}^{q} C_{hij}M_{ij}\right)}{M_i + \sum_{j=1}^{q} M_{ij}} \qquad \text{Eq. 1a}$$

Where:

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = number of different materials added to the coating material.

C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

or calculate the as-applied volatile organic content of each coating material using Equation 1b of this section:

$$C_{avi} = \frac{\left(C_{vi}M_i + \sum_{j=1}^{q} C_{vij}M_{ij}\right)}{M_i + \sum_{j=1}^{q} M_{ij}} \qquad \text{Eq. 1b}$$

Where:

C_{avi} = Monthly average, as-applied, volatile organic content of coating material, i, expressed as a mass fraction, kg/kg.

C_{vi} = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{vij} = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

(2) *Each coating material as-applied meets the mass fraction of coating solids standard (§ 63.3320(b)(3)).* You must demonstrate that each coating material applied at an existing affected source contains no more than 0.20 kg of organic HAP per kg of coating solids applied and each coating material applied at a new affected source contains no more than 0.08 kg of organic HAP per kg of coating solids applied. You must demonstrate compliance in accordance with paragraphs (c)(2)(i) and (ii) of this section.

(i) Determine the as-applied coating solids content of each coating material following the procedure in § 63.3360(d). You must calculate the as-applied coating solids content of coating materials which are reduced, thinned, or diluted prior to application, using Equation 2 of this section:

$$C_{asi} = \frac{\left(C_{si}M_i + \sum_{j=1}^{q} C_{sij}M_{ij}\right)}{M_i + \sum_{j=1}^{q} M_{ij}} \qquad \text{Eq. 2}$$

Where:

C_{si} = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{sij} = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

(ii) Calculate the as-applied organic HAP to coating solids ratio using Equation 3 of this section:

$$H_{si} = \frac{C_{ahi}}{C_{asi}} \qquad \text{Eq. 3}$$

Where:

H_{si} = As-applied, organic HAP to coating solids ratio of coating material, i.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

C_{asi} = Monthly average, as-applied, coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

(3) *Monthly average organic HAP content of all coating materials as-applied is less than the mass percent limit (§ 63.3320(b)(2)).* Demonstrate that the monthly average as-applied organic HAP content of all coating materials applied at an existing affected source is less than 0.04 kg organic HAP per kg of coating material applied, and all coating materials applied at a new affected source are less than 0.016 kg organic HAP per kg of coating material applied, as determined by Equation 4 of this section:

$$H_L = \frac{\sum_{i=1}^{p} C_{hi}M_i + \sum_{j=1}^{q} C_{hij}M_{ij} - M_{vret}}{\sum_{i=1}^{p} M_i + \sum_{j=1}^{q} M_{ij}} \qquad \text{Eq. 4}$$

Where:

H_L = Monthly average, as-applied, organic HAP content of all coating materials applied, expressed as kg organic HAP per kg of coating material applied, kg/kg.

p = Number of different coating materials applied in a month.

C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in § 63.3370.

(4) *Monthly average organic HAP content of all coating materials as-applied is less than the mass fraction of coating solids limit (§ 63.3320(b)(3)).* Demonstrate that the monthly average as-applied organic HAP content on the basis of coating solids applied of all coating materials applied at an existing affected source is less than 0.20 kg organic HAP per kg coating solids applied, and all coating materials applied at a new affected source are less than 0.08 kg organic HAP per kg coating solids applied, as determined by Equation 5 of this section:

$$H_S = \frac{\sum_{i=1}^{p} C_{hi}M_i + \sum_{j=1}^{q} C_{hij}M_{ij} - M_{vret}}{\sum_{i=1}^{p} C_{Si}M_i + \sum_{j=1}^{q} C_{Sij}M_{ij}} \qquad \text{Eq. 5}$$

Where:

H_s = Monthly average, as-applied, organic HAP to coating solids ratio, kg organic HAP/kg coating solids applied.

p = Number of different coating materials applied in a month.

C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.
M_i = Mass of as-purchased coating material, i, applied in a month, kg.
q = Number of different materials added to the coating material.
C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.
M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.
M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in § 63.3370.
C_{si} = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.
C_{sij} = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg.

(5) The affected source is in compliance with emission standards in § 63.3320(b)(2) or (3) if:

(i) The organic HAP content of each coating material as-applied at an existing affected source is no more than 0.04 kg organic HAP per kg coating material or 0.2 kg organic HAP per kg coating solids, and the organic HAP content of each coating material as-applied at a new affected source contains no more than 0.016 kg organic HAP per kg coating material or 0.08 kg organic HAP per kg coating solids; or

(ii) The monthly average organic HAP content of all as-applied coating materials at an existing affected source are no more than 0.04 kg organic HAP per kg coating material or 0.2 kg organic HAP per kg coating solids, and the monthly average organic HAP content of all as-applied coating materials at a new affected source is no more than 0.016 kg organic HAP per kg coating material or 0.08 kg organic HAP per kg coating solids.

(d) *Monthly allowable organic HAP applied.* Demonstrate that the total monthly organic HAP applied as determined by Equation 6 of this section is less than the calculated equivalent allowable organic HAP as determined by Equation 13a or b in paragraph (l) of this section:

$$H_m = \sum_{i=1}^{p} C_{hi} M_i + \sum_{j=1}^{q} C_{hij} M_{ij} - M_{vret} \qquad \text{Eq. 6}$$

Where:
H_m = Total monthly organic HAP applied, kg.
p = Number of different coating materials applied in a month.
C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.
M_i = Mass of as-purchased coating material, i, applied in a month, kg.
q = Number of different materials added to the coating material.
C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.
M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.
M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in § 63.3370.

(e) *Capture and control to reduce emissions to no more than allowable limit (§ 63.3320(b)(1)).* Operate a capture system and control device and demonstrate an overall organic HAP control efficiency of at least 95 percent at an existing affected source and at least 98 percent at a new affected source for each month, or operate a capture system and oxidizer so that an outlet organic HAP concentration of no greater than 20 ppmv by compound on a dry basis is achieved as long as the capture efficiency is 100 percent as detailed in § 63.3320(b)(4). Unless one of the cases described in paragraph (e)(1), (2), or (3) of this section applies to the affected source, you must either demonstrate compliance in accordance with the procedure in paragraph (i) of this section when emissions from the affected source are controlled by a solvent recovery device, or the procedure in paragraph (k) of this section when emissions are controlled by an oxidizer or demonstrate compliance for a web coating line by operating each capture system and each control device and continuous parameter monitoring according to the procedures in paragraph (j) of this section.

(1) If the affected source has only always-controlled work stations and operates more than one capture system or more than one control device, you must demonstrate compliance in accordance with the provisions of either paragraph (n) or (p) of this section.

(2) If the affected source operates one or more never-controlled work stations or one or more intermittently-controlled work stations, you must demonstrate compliance in accordance with the provisions of paragraph (n) of this section.

(3) An alternative method of demonstrating compliance with § 63.3320(b)(1) is the installation of a PTE around the web coating line that achieves 100 percent capture efficiency and ventilation of all organic HAP emissions from the total enclosure to an oxidizer with an outlet organic HAP concentration of no greater than 20 ppmv by compound on a dry basis. If this method is selected, you must demonstrate compliance by following the procedures in paragraphs (e)(3)(i) and (ii) of this section. Compliance is determined according to paragraph (e)(3)(iii) of this section.

(i) Demonstrate that a total enclosure is installed. An enclosure that meets the requirements in § 63.3360(f)(1) will be considered a total enclosure.

(ii) Determine the organic HAP concentration at the outlet of your total enclosure using the procedures in paragraph (e)(3)(ii)(A) or (B) of this section.

(A) Determine the control device efficiency using Equation 2 of § 63.3360 and the applicable test methods and procedures specified in § 63.3360(e).

(B) Use a CEMS to determine the organic HAP emission rate according to paragraphs (i)(2)(i) through (x) of this section.

(iii) You are in compliance if the installation of a total enclosure is demonstrated and the organic HAP concentration at the outlet of the incinerator is demonstrated to be no

greater than 20 ppmv by compound on a dry basis.

(f) *Capture and control to achieve mass fraction of coating solids applied limit (§ 63.3320(b)(3)).* Operate a capture system and control device and limit the organic HAP emission rate from an existing affected source to no more than 0.20 kg organic HAP emitted per kg coating solids applied, and from a new affected source to no more than 0.08 kg organic HAP emitted per kg coating solids applied as determined on a monthly average as-applied basis. If the affected source operates more than one capture system, more than one control device, one or more never-controlled work stations, or one or more intermittently-controlled work stations, then you must demonstrate compliance in accordance with the provisions of paragraph (n) of this section. Otherwise, you must demonstrate compliance following the procedure in paragraph (i) of this section when emissions from the affected source are controlled by a solvent recovery device or the procedure in paragraph (k) of this section when emissions are controlled by an oxidizer.

(g) *Capture and control to achieve mass fraction limit (§ 63.3320(b)(2)).* Operate a capture system and control device and limit the organic HAP emission rate to no more than 0.04 kg organic HAP emitted per kg coating material applied at an existing affected source, and no more than 0.016 kg organic HAP emitted per kg coating material applied at a new affected source as determined on a monthly average as-applied basis. If the affected source operates more than one capture system, more than one control device, one or more never-controlled work stations, or one or more intermittently-controlled work stations, then you must demonstrate compliance in accordance with the provisions of paragraph (n) of this section. Otherwise, you must demonstrate compliance following the procedure in paragraph (i) of this section when emissions from the affected source are controlled by a solvent recovery device or the procedure in paragraph (k) of this section when emissions are controlled by an oxidizer.

(h) *Capture and control to achieve allowable emission rate.* Operate a capture system and control device and limit the monthly organic HAP emissions to less than the allowable emissions as calculated in accordance with paragraph (l) of this section. If the affected source operates more than one capture system, more than one control device, one or more never-controlled work stations, or one or more intermittently-controlled work stations, then you must demonstrate compliance in accordance with the provisions of paragraph (n) of this section. Otherwise, the owner or operator must demonstrate compliance following the procedure in paragraph (i) of this section when emissions from the affected source are controlled by a solvent recovery device or the procedure in paragraph (k) of this section when emissions are controlled by an oxidizer.

(i) *Solvent recovery device compliance demonstration.* If you use a solvent recovery device to control emissions, you must show compliance by following the procedures in either paragraph (i)(1) or (2) of this section:

(1) *Liquid-liquid material balance.* Perform a monthly liquid-liquid material balance as specified in paragraphs (i)(1)(i) through (v) of this section and use the applicable equations in paragraphs (i)(1)(vi) through (ix) of this section to convert the data to units of the selected compliance option in paragraphs (e) through (h) of this section. Compliance is determined in accordance with paragraph (i)(1)(x) of this section.

(i) Determine the mass of each coating material applied on the web coating line or group of web coating lines controlled by a common solvent recovery device during the month.

(ii) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as-applied during the month following the procedure in § 63.3360(c).

(iii) Determine the volatile organic content of each coating material as-applied during the month following the procedure in § 63.3360(d).

(iv) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission of less than the calculated allowable organic HAP, determine the coating solids content of each coating material applied during the month following the procedure in § 63.3360(d).

(v) Determine and monitor the amount of volatile organic matter recovered for the month according to the procedures in § 63.3350(d).

(vi) *Recovery efficiency.* Calculate the volatile organic matter collection and recovery efficiency using Equation 7 of this section:

$$R_V = \frac{M_{vr} + M_{vret}}{\sum_{i-1}^{p} C_{vi} M_i + \sum_{i=1}^{q} C_{vij} M_{ij}} \times 100 \quad \text{Eq. 7}$$

Where:

R_v = Organic volatile matter collection and recovery efficiency, percent.

M_{vr} = Mass of volatile matter recovered in a month, kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in § 63.3370.

p = Number of different coating materials applied in a month.

C_{vi} = Volatile organic content of coating material, i, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{vij} = Volatile organic content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

(vii) *Organic HAP emitted.* Calculate the organic HAP emitted during the month using Equation 8 of this section:

$$H_e = \left[1 - \frac{R_v}{100}\right]\left[\sum_{i=1}^{p} C_{hi} M_i + \sum_{j=1}^{q} C_{hij} M_{ij} - M_{vret}\right] \quad \text{Eq. 8}$$

Where:

H_e = Total monthly organic HAP emitted, kg.

R_v = Organic volatile matter collection and recovery efficiency, percent.

p = Number of different coating materials applied in a month.

C_{hi} = Organic HAP content of coating material, i, as-purchased, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{hij} = Organic HAP content of material, j, added to as-purchased coating material, i, expressed as a mass fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in § 63.3370.

(viii) *Organic HAP emission rate based on coating solids applied.* Calculate the organic HAP emission rate based on coating solids applied using Equation 9 of this section:

$$L = \frac{H_e}{\sum_{i=1}^{p} C_{si} M_i + \sum_{j=1}^{q} C_{sij} M_{ij}} \qquad \text{Eq. 9}$$

Where:

L = Mass organic HAP emitted per mass of coating solids applied, kg/kg.

H_e = Total monthly organic HAP emitted, kg.

p = Number of different coating materials applied in a month.

C_{si} = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

C_{sij} = Coating solids content of material, j, added to as-purchased coating material, i, expressed as a mass-fraction, kg/kg.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

(ix) *Organic HAP emission rate based on coating materials applied.* Calculate the organic HAP emission rate based on coating material applied using Equation 10 of this section:

$$S = \frac{H_e}{\sum_{i=1}^{p} M_i + \sum_{j=1}^{q} M_{ij}} \qquad \text{Eq. 10}$$

Where:

S = Mass organic HAP emitted per mass of material applied, kg/kg.

H_e = Total monthly organic HAP emitted, kg.

p = Number of different coating materials applied in a month.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

q = Number of different materials added to the coating material.

M_{ij} = Mass of material, j, added to as-purchased coating material, i, in a month, kg.

(x) You are in compliance with the emission standards in § 63.3320(b) if:

(A) The volatile organic matter collection and recovery efficiency is 95 percent or greater at an existing affected source and 98 percent or greater at a new affected source; or

(B) The organic HAP emission rate based on coating solids applied is no more than 0.20 kg organic HAP per kg coating solids applied at an existing affected source and no more than 0.08 kg organic HAP per kg coating solids applied at a new affected source; or

(C) The organic HAP emission rate based on coating material applied is no more than 0.04 kg organic HAP per kg coating material applied at an existing affected source and no more than 0.016 kg organic HAP per kg coating material applied at a new affected source; or

(D) The organic HAP emitted during the month is less than the calculated allowable organic HAP as determined using paragraph (l) of this section.

(2) *Continuous emission monitoring of capture system and control device performance.* Demonstrate initial compliance through a performance test on capture efficiency and continuing compliance through continuous emission monitors and continuous monitoring of capture system operating parameters following the procedures in paragraphs (i)(2)(i) through (vii) of this section. Use the applicable equations specified in paragraphs (i)(2)(viii) through (x) of this section to convert the monitoring and other data into units of the selected compliance option in paragraphs (e) through (h) of this section. Compliance is determined in accordance with paragraph (i)(2)(xi) of this section.

(i) *Control device efficiency.* Continuously monitor the gas stream entering and exiting the control device to determine the total organic volatile matter mass flow rate (*e.g.*, by determining the concentration of the vent gas in grams per cubic meter and the volumetric flow rate in cubic meters per second such that the total organic volatile matter mass flow rate in grams per second can be calculated) such that the control device efficiency of the control device can be calculated for each month using Equation 2 of § 63.3360.

(ii) *Capture efficiency monitoring.* Whenever a web coating line is operated, continuously monitor the operating parameters established in accordance with § 63.3350(f) to ensure capture efficiency.

(iii) Determine the percent capture efficiency in accordance with § 63.3360(f).

(iv) *Control efficiency.* Calculate the overall organic HAP control efficiency achieved for each month using Equation 11 of this section:

$$R = \frac{(E)(CE)}{100} \qquad \text{Eq. 11}$$

Where:

R = Overall organic HAP control efficiency, percent.

E = Organic volatile matter control efficiency of the control device, percent.

CE = Organic volatile matter capture efficiency of the capture system, percent.

(v) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating materials applied, or emission of less than the calculated allowable organic HAP, determine the mass of each coating material applied on the web coating line or group of web coating lines controlled by a common control device during the month.

(vi) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as-applied during the month following the procedure in § 63.3360(c).

(vii) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission of less than the calculated allowable organic HAP, determine the coating solids content of each coating material as-applied during the month following the procedure in § 63.3360(d).

(viii) *Organic HAP emitted.* Calculate the organic HAP emitted during the month for each month using Equation 12 of this section:

$$H_e = (1 - R)\left(\sum_{i=1}^{p} C_{ahi} M_i\right) - M_{vret} \qquad \text{Eq. 12}$$

Where:

H_e = Total monthly organic HAP emitted, kg.

R = Overall organic HAP control efficiency, percent.

p = Number of different coating materials applied in a month.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in this section.

(ix) *Organic HAP emission rate based on coating solids applied.* Calculate the organic HAP emission rate based on coating solids applied using Equation 9 of this section.

(x) *Organic HAP emission rate based on coating materials applied.* Calculate the organic HAP emission rate based on coating material applied using Equation 10 of this section.

(xi) *Compare actual performance to the performance required by compliance option.* The affected source is in compliance with the emission standards in § 63.3320(b) for each month if the capture system is operated such that the average capture system operating parameter is greater than or less than (as appropriate) the operating parameter value established in accordance with § 63.3350(f); and

(A) The organic volatile matter collection and recovery efficiency is 95 percent or greater at an existing affected source and 98 percent or greater at a new affected source; or

(B) The organic HAP emission rate based on coating solids applied is no more than 0.20 kg organic HAP per kg coating solids applied at an existing affected source and no more than 0.08 kg organic HAP per kg coating solids applied at a new affected source; or

(C) The organic HAP emission rate based on coating material applied is no more than 0.04 kg organic HAP per kg coating material applied at an existing affected source and no more than 0.016 kg organic HAP per kg coating material applied at a new affected source; or

(D) The organic HAP emitted during the month is less than the calculated allowable organic HAP as determined using paragraph (l) of this section.

(j) *Capture and control system compliance demonstration procedures using a CPMS.* If you use an add-on control device, you must demonstrate initial compliance for each capture system and each control device through performance tests and demonstrate continuing compliance through continuous monitoring of capture system and control device operating parameters as specified in paragraphs (j)(1) through (3) of this section. Compliance is determined in accordance with paragraph (j)(4) of this section.

(1) Determine the control device destruction or removal efficiency using the applicable test methods and procedures in § 63.3360(e).

(2) Determine the emission capture efficiency in accordance with § 63.3360(f).

(3) Whenever a web coating line is operated, continuously monitor the operating parameters established according to § 63.3350(e) and (f).

(4) You are in compliance with the emission standards in § 63.3320(b) if the control device is operated such that the average operating parameter value is greater than or less than (as appropriate) the operating parameter value established in accordance with § 63.3360(e) for each 3-hour period, and the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with § 63.3350(f); and

(i) The overall organic HAP control efficiency is 95 percent or greater at an existing affected source and 98 percent or greater at a new affected source; or

(ii) The organic HAP emission rate based on coating solids applied is no more than 0.20 kg organic HAP per kg coating solids applied at an existing affected source and no more than 0.08 kg organic HAP per kg coating solids applied at a new affected source; or

(iii) The organic HAP emission rate based on coating material applied is no more than 0.04 kg organic HAP per kg coating material applied at an existing affected source and no more than 0.016 kg organic HAP per kg coating material applied at a new affected source; or

(iv) The organic HAP emitted during the month is less than the calculated allowable organic HAP as determined using paragraph (l) of this section.

(k) *Oxidizer compliance demonstration procedures.* If you use an oxidizer to control emissions, you must show compliance by following the procedures in paragraph (k)(1) of this section. Use the applicable equations specified in paragraph (k)(2) of this section to convert the monitoring and other data into units of the selected compliance option in paragraph (e) through (h) of this section. Compliance is determined in accordance with paragraph (k)(3) of this section.

(1) Demonstrate initial compliance through performance tests of capture efficiency and control device efficiency and continuing compliance through continuous monitoring of capture system and control device operating parameters as specified in paragraphs (k)(1)(i) through (vi) of this section:

(i) Determine the oxidizer destruction efficiency using the procedure in § 63.3360(e).

(ii) Determine the capture system capture efficiency in accordance with § 63.3360(f).

(iii) *Capture and control efficiency monitoring.* Whenever a web coating line is operated, continuously monitor the operating parameters established in accordance with § 63.3350(e) and (f) to ensure capture and control efficiency.

(iv) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating materials applied, or emission of less than the calculated allowable organic HAP, determine the mass of each coating material applied on the web coating line or group of web coating lines controlled by a common oxidizer during the month.

(v) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied, organic HAP emission rate based on coating material applied, or emission of less than the calculated allowable organic HAP, determine the organic HAP content of each coating material as-applied during the month following the procedure in § 63.3360(c).

(vi) If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission of less than the calculated allowable organic HAP, determine the coating solids content of each coating

material applied during the month following the procedure in § 63.3360(d).

(2) Convert the information obtained under paragraph (p)(1) of this section into the units of the selected compliance option using the calculation procedures specified in paragraphs (k)(2)(i) through (iv) of this section.

(i) *Control efficiency.* Calculate the overall organic HAP control efficiency achieved using Equation 11 of this section.

(ii) *Organic HAP emitted.* Calculate the organic HAP emitted during the month using Equation 12 of this section.

(iii) *Organic HAP emission rate based on coating solids applied.* Calculate the organic HAP emission rate based on coating solids applied for each month using Equation 9 of this section.

(iv) *Organic HAP based on coating materials applied.* Calculate the organic HAP emission rate based on coating material applied using Equation 10 of this section.

(3) You are in compliance with the emission standards in § 63.3320(b) if the oxidizer is operated such that the average operating parameter value is greater than the operating parameter value established in accordance with § 63.3360(e) for each 3-hour period, and the capture system operating parameter is operated at an average value greater than or less than (as appropriate) the operating parameter value established in accordance with § 63.3350(f); and

(i) The overall organic HAP control efficiency is 95 percent or greater at an existing affected source and 98 percent or greater at a new affected source; or

(ii) The organic HAP emission rate based on coating solids applied is no more than 0.20 kg organic HAP per kg coating solids applied at an existing affected source and no more than 0.08 kg organic HAP per kg coating solids applied at a new affected source; or

(iii) The organic HAP emission rate based on coating material applied is no more than 0.04 kg organic HAP per kg coating material applied at an existing affected source and no more than 0.016 kg organic HAP per kg coating material applied at a new affected source; or

(iv) The organic HAP emitted during the month is less than the calculated allowable organic HAP as determined using paragraph (l) of this section.

(l) *Monthly allowable organic HAP emissions.* This paragraph provides the procedures and calculations for determining monthly allowable organic HAP emissions for use in demonstrating compliance in accordance with paragraph (d), (h), (i)(1)(x)(D), (i)(2)(xi)(D), or (k)(3)(iv) of this section. You will need to determine the amount of coating material applied at greater than or equal to 20 mass percent coating solids and the amount of coating material applied at less than 20 mass percent coating solids. The allowable organic HAP limit is then calculated based on coating material applied at greater than or equal to 20 mass percent coating solids complying with 0.2 kg organic HAP per kg coating solids at an existing affected source or 0.08 kg organic HAP per kg coating solids at a new affected source, and coating material applied at less than 20 mass percent coating solids complying with 4 mass percent organic HAP at an existing affected source and 1.6 mass-percent organic HAP at a new affected source as follows:

(1) Determine the as-purchased mass of each coating material applied each month.

(2) Determine the as-purchased coating solids content of each coating material applied each month in accordance with § 63.3360(d)(1).

(3) Determine the as-purchased mass fraction of each coating material which was applied at 20 mass percent or greater coating solids content on an as-applied basis.

(4) Determine the total mass of each solvent, diluent, thinner, or reducer added to coating materials which were applied at less than 20 mass percent coating solids content on an as-applied basis each month.

(5) Calculate the monthly allowable organic HAP emissions using Equation 13a of this section for an existing affected source:

$$H_a = 0.20\left[\sum_{i=1}^{p} M_i G_i C_{si}\right] + 0.04\left[\sum_{i=1}^{p} M_i (1 - G_i) + \sum_{j=1}^{q} M_{L_j}\right] \qquad \text{Eq. 13a}$$

Where:

H_a = Monthly allowable organic HAP emissions, kg.

p = Number of different coating materials applied in a month.

M_i = mass of as-purchased coating material, i, applied in a month, kg.

G_i = Mass fraction of each coating material, i, which was applied at 20 mass percent or greater coating solids content, on an as-applied basis, kg/kg.

C_{si} = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

q = Number of different materials added to the coating material.

M_{Lj} = Mass of non-coating-solids-containing coating material, j, added to coating-solids-containing coating materials which were applied at less than 20 mass percent coating solids content, on an as-applied basis, in a month, kg.

or Equation 13b of this section for a new affected source:

$$H_a = 0.08\left[\sum_{i=1}^{p} M_i G_i C_{si}\right] + 0.016\left[\sum_{i=1}^{p} M_i \left(1 - G_i\right) + \sum_{j=1}^{q} M_{L_j}\right] \qquad \text{Eq. 13b}$$

Where:

H_a = Monthly allowable organic HAP emissions, kg.

p = Number of different coating materials applied in a month.

M_i = Mass of as-purchased coating material, i, applied in a month, kg.

G_i = Mass fraction of each coating material, i, which was applied at 20 mass percent or greater coating solids content, on an as-applied basis, kg/kg.

C_{si} = Coating solids content of coating material, i, expressed as a mass fraction, kg/kg.

q = Number of different materials added to the coating material.

M_{Lj} = Mass of non-coating-solids-containing coating material, j, added to coating-solids-containing coating materials which were applied at less than 20 mass percent

coating solids content, on an as-applied basis, in a month, kg.

(m) [Reserved]

(n) *Combinations of capture and control.* If you operate more than one capture system, more than one control device, one or more never-controlled work stations, or one or more intermittently-controlled work stations, you must calculate organic HAP emissions according to the procedures in paragraphs (n)(1) through (4) of this section, and use the calculation procedures specified in paragraph (n)(5) of this section to convert the monitoring and other data into units of the selected control option in paragraphs (e) through (h) of this section. Use the procedures specified in paragraph (n)(6) of this section to demonstrate compliance.

(1) *Solvent recovery system using liquid-liquid material balance compliance demonstration.* If you choose to comply by means of a liquid-liquid material balance for each solvent recovery system used to control one or more web coating lines, you must determine the organic HAP emissions for those web coating lines controlled by that solvent recovery system either:

(i) In accordance with paragraphs (i)(1)(i) through (iii) and (v) through (vii) of this section, if the web coating lines controlled by that solvent recovery system have only always-controlled work stations; or

(ii) In accordance with paragraphs (i)(1)(ii), (iii), (v), and (vi) and (o) of this section, if the web coating lines controlled by that solvent recovery system have one or more never-controlled or intermittently-controlled work stations.

(2) *Solvent recovery system using performance test compliance demonstration and CEMS.* To demonstrate compliance through an initial test of capture efficiency, continuous monitoring of a capture system operating parameter, and a CEMS on each solvent recovery system used to control one or more web coating lines, you must:

(i) For each capture system delivering emissions to that solvent recovery system, monitor the operating parameter established in accordance with § 63.3350(f) to ensure capture system efficiency; and

(ii) Determine the organic HAP emissions for those web coating lines served by each capture system delivering emissions to that solvent recovery system either:

(A) In accordance with paragraphs (i)(2)(i) through (iii), (v), (vi), and (viii) of this section, if the web coating lines served by that capture and control system have only always-controlled work stations; or

(B) In accordance with paragraphs (i)(2)(i) through (iii), (vi), and (o) of this section, if the web coating lines served by that capture and control system have one or more never-controlled or intermittently-controlled work stations.

(3) *Oxidizer.* To demonstrate compliance through performance tests of capture efficiency and control device efficiency, continuous monitoring of capture system, and CPMS for control device operating parameters for each oxidizer used to control emissions from one or more web coating lines, you must:

(i) Monitor the operating parameter in accordance with § 63.3350(e) to ensure control device efficiency; and

(ii) For each capture system delivering emissions to that oxidizer, monitor the operating parameter established in accordance with § 63.3350(f) to ensure capture efficiency; and

(iii) Determine the organic HAP emissions for those web coating lines served by each capture system delivering emissions to that oxidizer either:

(A) In accordance with paragraphs (k)(1)(i) through (vi) of this section, if the web coating lines served by that capture and control system have only always-controlled work stations; or

(B) In accordance with paragraphs (k)(1)(i) through (iii), (v), and (o) of this section, if the web coating lines served by that capture and control system have one or more never-controlled or intermittently-controlled work stations.

(4) *Uncontrolled coating lines.* If you own or operate one or more uncontrolled web coating lines, you must determine the organic HAP applied on those web coating lines using Equation 6 of this section. The organic HAP emitted from an uncontrolled web coating line is equal to the organic HAP applied on that web coating line.

(5) Convert the information obtained under paragraphs (n)(1) through (4) of this section into the units of the selected compliance option using the calculation procedures specified in paragraphs (n)(5)(i) through (iv) of this section.

(i) *Organic HAP emitted.* Calculate the organic HAP emissions for the affected source for the month by summing all organic HAP emissions calculated according to paragraphs (n)(1), (2)(ii), (3)(iii), and (4) of this section.

(ii) *Coating solids applied.* If demonstrating compliance on the basis of organic HAP emission rate based on coating solids applied or emission of less than the calculated allowable organic HAP, the owner or operator must determine the coating solids content of each coating material applied during the month following the procedure in § 63.3360(d).

(iii) *Organic HAP emission rate based on coating solids applied.* Calculate the organic HAP emission rate based on coating solids applied for each month using Equation 9 of this section.

(iv) *Organic HAP based on materials applied.* Calculate the organic HAP emission rate based on material applied using Equation 10 of this section.

(6) *Compliance.* The affected source is in compliance with the emission standards in § 63.3320(b) for the month if all operating parameters required to be monitored under paragraphs (n)(1) through (3) of this section were maintained at the values established under §§ 63.3350 and 63.3360; and

(i) The total mass of organic HAP emitted by the affected source based on coating solids applied is no more than 0.20 kg organic HAP per kg coating solids applied at an existing affected source and no more than 0.08 kg organic HAP per kg coating solids applied at a new affected source; or

(ii) The total mass of organic HAP emitted by the affected source based on material applied is no more than 0.04 kg organic HAP per kg material applied at an existing affected source and no more than 0.016 kg organic HAP per kg material applied at a new affected source; or

(iii) The total mass of organic HAP emitted by the affected source during the month is less than the calculated allowable organic HAP as determined using paragraph (l) of this section; or

(iv) The total mass of organic HAP emitted by the affected source was not more than 5 percent of the total mass of organic HAP applied for the month at an existing affected source and no more than 2 percent of the total mass of organic HAP applied for the month at a new affected source. The total mass of organic HAP applied by the affected source in the month must be determined using Equation 6 of this section.

(o) *Intermittently-controlled and never-controlled work stations.* If you have been expressly referenced to this paragraph by paragraphs (n)(1)(ii), (n)(2)(ii)(B), or (n)(3)(iii)(B) of this section for calculation procedures to determine organic HAP emissions for your intermittently-controlled and never-controlled work stations, you must:

(1) Determine the sum of the mass of all coating materials as-applied on intermittently-controlled work stations operating in bypass mode and the mass of all coating materials as-applied on

never-controlled work stations during the month.

(2) Determine the sum of the mass of all coating materials as-applied on intermittently-controlled work stations operating in a controlled mode and the mass of all coating materials applied on always-controlled work stations during the month.

(3) *Liquid-liquid material balance compliance demonstration.* For each web coating line or group of web coating lines for which you use the provisions of paragraph (n)(1)(ii) of this section, you must calculate the organic HAP emitted during the month using Equation 14 of this section:

$$H_e = \left[\sum_{i=1}^{p} M_{Ci} C_{ahi}\right]\left[1 - \frac{R_v}{100}\right] + \left[\sum_{i=1}^{p} M_{Bi} C_{ahi}\right] - M_{vret} \qquad \text{Eq. 14}$$

Where:

H_e = Total monthly organic HAP emitted, kg.

p = Number of different coating materials applied in a month.

M_{ci} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in controlled mode and the mass of coating material, i, as-applied on always-controlled work stations, in a month, kg.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

R_v = Organic volatile matter collection and recovery efficiency, percent.

M_{Bi} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in bypass mode and the mass of coating material, i, as-applied on never-controlled work stations, in a month, kg.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in this section.

(4) *Performance test to determine capture efficiency and control device efficiency.* For each web coating line or group of web coating lines for which you use the provisions of paragraph (n)(2)(ii)(B) or (n)(3)(iii)(B) of this section, you must calculate the organic HAP emitted during the month using Equation 15 of this section:

$$H_e = \left[\sum_{i=1}^{p} M_{Ci} C_{ahi}\right]\left[1 - \frac{R}{100}\right] + \left[\sum_{i=1}^{p} M_{Bi} C_{ahi}\right] - M_{vret} \qquad \text{Eq. 15}$$

Where:

H_e = Total monthly organic HAP emitted, kg.

p = Number of different coating materials applied in a month.

M_{ci} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in controlled mode and the mass of coating material, i, as-applied on always-controlled work stations, in a month, kg.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

R = Overall organic HAP control efficiency, percent.

M_{Bi} = Sum of the mass of coating material, i, as-applied on intermittently-controlled work stations operating in bypass mode and the mass of coating material, i, as-applied on never-controlled work stations, in a month, kg.

C_{ahi} = Monthly average, as-applied, organic HAP content of coating material, i, expressed as a mass fraction, kg/kg.

M_{vret} = Mass of volatile matter retained in the coated web after curing or drying, or otherwise not emitted to the atmosphere, kg. The value of this term will be zero in all cases except where you choose to take into account the volatile matter retained in the coated web or otherwise not emitted to the atmosphere for the compliance demonstration procedures in this section.

(p) *Always-controlled work stations with more than one capture and control system.* If you operate more than one capture system or more than one control device and only have always-controlled work stations, then you are in compliance with the emission standards in § 63.3320(b)(1) for the month if for each web coating line or group of web coating lines controlled by a common control device:

(1) The volatile matter collection and recovery efficiency as determined by paragraphs (i)(1)(i), (iii), (v), and (vi) of this section is at least 95 percent at an existing affected source and at least 98 percent at a new affected source; or

(2) The overall organic HAP control efficiency as determined by paragraphs (i)(2)(i) through (iv) of this section for each web coating line or group of web coating lines served by that control device and a common capture system is at least 95 percent at an existing affected source and at least 98 percent at a new affected source; or

(3) The overall organic HAP control efficiency as determined by paragraphs (k)(1)(i) through (iii) and (k)(2)(i) of this section for each web coating line or group of web coating lines served by that control device and a common capture system is at least 95 percent at an existing affected source and at least 98 percent at a new affected source.

Notifications, Reports, and Records

§ 63.3400 What notifications and reports must I submit?

(a) Each owner or operator of an affected source subject to this subpart must submit the reports specified in paragraphs (b) through (g) of this section to the Administrator:

(b) You must submit an initial notification as required by § 63.9(b).

(1) Initial notification for existing affected sources must be submitted no later than 1 year before the compliance date specified in § 63.3330(a).

(2) Initial notification for new and reconstructed affected sources must be submitted as required by § 63.9(b).

(3) For the purpose of this subpart, a title V or part 70 permit application may be used in lieu of the initial notification required under § 63.9(b), provided the same information is contained in the permit application as required by § 63.9(b) and the State to which the permit application has been submitted has an approved operating permit program under part 70 of this chapter and has received delegation of authority from the EPA to implement and enforce this subpart.

(4) If you are using a permit application in lieu of an initial notification in accordance with paragraph (b)(3) of this section, the permit application must be submitted by the same due date specified for the initial notification.

(c) You must submit a semiannual compliance report according to paragraphs (c)(1) and (2) of this section.

(1) Compliance report dates.

(i) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in § 63.3330 and ending on June 30 or December 31, whichever date is the first date following the end of the calendar half immediately following the compliance date that is specified for your affected source in § 63.3330.

(ii) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the calendar half immediately following the compliance date that is specified for your affected source in § 63.3330.

(iii) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iv) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(v) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and the permitting authority has established dates for submitting semiannual reports pursuant to § 70.6(a)(3)(iii)(A) or § 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (c)(1)(i) through (iv) of this section.

(2) The compliance report must contain the information in paragraphs (c)(2)(i) through (vi) of this section:

(i) Company name and address.

(ii) Statement by a responsible official with that official's name, title, and signature certifying the accuracy of the content of the report.

(iii) Date of report and beginning and ending dates of the reporting period.

(iv) If there are no deviations from any emission limitations (emission limit or operating limit) that apply to you, a statement that there were no deviations from the emission limitations during the reporting period, and that no CMS was inoperative, inactive, malfunctioning, out-of-control, repaired, or adjusted.

(v) For each deviation from an emission limitation (emission limit or operating limit) that applies to you and that occurs at an affected source where you are not using a CEMS to comply with the emission limitations in this subpart, the compliance report must contain the information in paragraphs (c)(2)(i) through (iii) of this section, and:

(A) The total operating time of each affected source during the reporting period.

(B) Information on the number, duration, and cause of deviations (including unknown cause), if applicable, and the corrective action taken.

(C) Information on the number, duration, and cause for CPMS downtime incidents, if applicable, other than downtime associated with zero and span and other calibration checks.

(vi) For each deviation from an emission limit occurring at an affected source where you are using a CEMS to comply with the emission limit in this subpart, you must include the information in paragraphs (c)(2)(i) through (iii) and (vi)(A) through (J) of this section.

(A) The date and time that each malfunction started and stopped.

(B) The date and time that each CEMS and CPMS, if applicable, was inoperative except for zero (low-level) and high-level checks.

(C) The date and time that each CEMS and CPMS, if applicable, was out-of-control, including the information in § 63.8(c)(8).

(D) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(E) A summary of the total duration (in hours) of each deviation during the reporting period and the total duration of each deviation as a percent of the total source operating time during that reporting period.

(F) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(G) A summary of the total duration (in hours) of CEMS and CPMS downtime during the reporting period and the total duration of CEMS and CPMS downtime as a percent of the total source operating time during that reporting period.

(H) A breakdown of the total duration of CEMS and CPMS downtime during the reporting period into periods that are due to monitoring equipment malfunctions, nonmonitoring equipment malfunctions, quality assurance/quality control calibrations, other known causes, and other unknown causes.

(I) The date of the latest CEMS and CPMS certification or audit.

(J) A description of any changes in CEMS, CPMS, or controls since the last reporting period.

(d) You must submit a Notification of Performance Tests as specified in §§ 63.7 and 63.9(e) if you are complying with the emission standard using a control device and you are required to conduct a performance test of the control device. This notification and the site-specific test plan required under § 63.7(c)(2) must identify the operating parameters to be monitored to ensure that the capture efficiency of the capture system and the control efficiency of the control device determined during the performance test are maintained. Unless EPA objects to the parameter or requests changes, you may consider the parameter approved.

(e) You must submit a Notification of Compliance Status as specified in § 63.9(h).

(f) You must submit performance test reports as specified in § 63.10(d)(2) if you are using a control device to comply with the emission standard and you have not obtained a waiver from the performance test requirement or you are not exempted from this requirement by § 63.3360(b). The performance test reports must be submitted as part of the notification of compliance status required in § 63.3400(e).

(g) You must submit startup, shutdown, and malfunction reports as specified in § 63.10(d)(5), except that the provisions in subpart A of this part pertaining to startups, shutdowns, and malfunctions do not apply unless a control device is used to comply with this subpart.

(1) If actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source

(including actions taken to correct a malfunction) are not consistent with the procedures specified in the affected source's SSMP required by § 63.6(e)(3), the owner or operator must state such information in the report. The startup, shutdown, or malfunction report must consist of a letter containing the name, title, and signature of the responsible official who is certifying its accuracy and must be submitted to the Administrator.

(2) Separate startup, shutdown, and malfunction reports are not required if the information is included in the report specified in paragraph (c)(2)(vi) of this section.

§ 63.3410 What records must I keep?

(a) Each owner or operator of an affected source subject to this subpart must maintain the records specified in paragraphs (a)(1) and (2) of this section on a monthly basis in accordance with the requirements of § 63.10(b)(1):

(1) Records specified in § 63.10(b)(2) of all measurements needed to demonstrate compliance with this standard, including:

(i) Continuous emission monitor data in accordance with the requirements of § 63.3350(d);

(ii) Control device and capture system operating parameter data in accordance with the requirements of § 63.3350(c), (e), and (f);

(iii) Organic HAP content data for the purpose of demonstrating compliance in accordance with the requirements of § 63.3360(c);

(iv) Volatile matter and coating solids content data for the purpose of demonstrating compliance in accordance with the requirements of § 63.3360(d);

(v) Overall control efficiency determination using capture efficiency and control device destruction or removal efficiency test results in accordance with the requirements of § 63.3360(e) and (f); and

(vi) Material usage, organic HAP usage, volatile matter usage, and coating solids usage and compliance demonstrations using these data in accordance with the requirements of § 63.3370(b), (c), and (d).

(2) Records specified in § 63.10(c) for each CMS operated by the owner or operator in accordance with the requirements of § 63.3350(b).

(b) Each owner or operator of an affected source subject to this subpart must maintain records of all liquid-liquid material balances performed in accordance with the requirements of § 63.3370. The records must be maintained in accordance with the requirements of § 63.10(b).

Delegation of Authority

§ 63.3420 What authorities may be delegated to the States?

(a) In delegating implementation and enforcement authority to a State under 40 CFR part 63, subpart E, the authorities contained in paragraph (b) of this section must be retained by the Administrator and not transferred to a State.

(b) Authority which will not be delegated to States: § 63.3360(c), approval of alternate test method for organic HAP content determination; § 63.3360(d), approval of alternate test method for volatile matter determination.

If you are required to comply with operating limits by § 63.3321, you must comply with the applicable operating limits in the following table:

Tables to Subpart JJJJ of Part 63

TABLE 1 TO SUBPART JJJJ OF PART 63.—OPERATING LIMITS IF USING ADD-ON CONTROL DEVICES AND CAPTURE SYSTEM

For the following device:	You must meet the following operating limit:	And you must demonstrate continuous compliance with operating limits by:
1. Thermal oxidizer	a. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to § 63.3360(e)(3)(i).	i. Collecting the combustion temperature data according to § 63.3350(e)(9); ii. Reducing the data to 3-hour block averages; and iii. Maintain the 3-hour average combustion temperature at or above the temperature limit.
2. Catalytic oxidizer	a. The average temperature at the inlet to the catalyst bed in any 3-hour period must not fall below the combustion temperature limit established according to § 63.3360(e)(3)(ii).	i. Collecting the catalyst bed inlet temperature data according to § 63.3350(e)(9); ii. Reducing the data to 3-hour block averages; and iii. Maintain the 3-hour average catalyst bed inlet temperature at or above the temperature limit.
	b. The temperature rise across the catalyst bed must not fall below the limit established according to § 63.3360(e)(3)(ii).	i. Collecting the catalyst bed inlet and outlet temperature data according to § 63.3350(e)(9); ii. Reducing the data to 3-hour block averages; and iii. Maintain the 3-hour average temperature rise across the catalyst bed at or above the limit.
3. Emission capture system	Submit monitoring plan to the Administrator that identifies operating parameters to be monitored according to § 63.3350(f).	Conduct monitoring according to the plan (§ 63.3350(f)(3)).

You must comply with the applicable General Provisions requirements according to the following table:

TABLE 2 TO SUBPART JJJJ OF PART 63.—APPLICABILITY OF 40 CFR PART 63 GENERAL PROVISIONS TO SUBPART JJJJ

General provisions reference	Applicable to subpart JJJJ	Explanation
§ 63.1(a)(1)–(4)	Yes.	

TABLE 2 TO SUBPART JJJJ OF PART 63.—APPLICABILITY OF 40 CFR PART 63 GENERAL PROVISIONS TO SUBPART JJJJ—Continued

General provisions reference	Applicable to subpart JJJJ	Explanation
§ 63.1(a)(5)	No	Reserved.
§ 63.1(a)(6)–(8)	Yes.	
§ 63.1(a)(9)	No	Reserved.
§ 63.1(a)(10)–(14)	Yes.	
§ 63.1(b)(1)	No	Subpart JJJJ specifies applicability.
§ 63.1(b)(2)–(3)	Yes.	
§ 63.1(c)(1)	Yes.	
§ 63.1(c)(2)	No	Area sources are not subject to emission standards of subpart JJJJ.
§ 63.1(c)(3)	No	Reserved.
§ 63.1(c)(4)	Yes.	
§ 63.1(c)(5)	Yes.	
§ 63.1(d)	No	Reserved.
§ 63.1(e)	Yes.	
§ 63.1(e)(4)	No.	
§ 63.2	Yes	Additional definitions in subpart JJJJ.
§ 63.3(a)–(c)	Yes.	
§ 63.4(a)(1)–(3)	Yes.	
§ 63.4(a)(4)	No	Reserved.
§ 63.4(a)(5)	Yes.	
§ 63.4(b)–(c)	Yes.	
§ 63.5(a)(1)–(2)	Yes.	
§ 63.5(b)(1)	Yes.	
§ 63.5(b)(2)	No	Reserved.
§ 63.5(b)(3)–(6)	Yes.	
§ 63.5(c)	No	Reserved.
§ 63.5(d)	Yes.	
§ 63.5(e)	Yes.	
§ 63.5(f)	Yes.	
§ 63.6(a)	Yes	Applies only when capture and control system is used to comply with the standard.
§ 63.6(b)(1)–(5)	No.	
§ 63.6(b)(6)	No	Reserved.
§ 63.6(b)(7)	Yes.	
§ 63.6(c)(1)–(2)	Yes.	
§ 63.6(c)(3)–(4)	No	Reserved.
§ 63.6(c)(5)	Yes.	
§ 63.6(d)	No	Reserved.
§ 63.6(e)	Yes	Provisions pertaining to SSMP, and CMS do not apply unless an add–on control system is used to comply with the emission limitations.
§ 63.6(f)	Yes.	
§ 63.6(g)	Yes.	
§ 63.6(h)	No	Subpart JJJJ does not require continuous opacity monitoring systems (COMS).
§ 63.6(i)(1)–(14)	Yes.	
§ 63.6(i)(15)	No	Reserved.
§ 63.6(i)(16)	Yes.	
§ 63.6(j)	Yes.	
§ 63.7	Yes.	
§ 63.8(a)(1)–(2)	Yes.	
§ 63.8(a)(3)	No	Reserved.
§ 63.8(a)(4)	No.	
§ 63.8(b)	Yes.	
§ 63.8(c)(1)–(3)	Yes	§ 63.8(c)(1)(i) & (ii) only apply if you use capture and control systems and are required to have a start-up, shutdown, and malfunction plan.
§ 63.8(c)(4)	Yes.	
§ 63.8(c)(5)	No	Subpart JJJJ does not require COMS.
§ 63.8(c)(6)–(c)(8)	Yes	Provisions for COMS are not applicable.
§ 63.8(d)–(f)	Yes	§ 63.8(f)(6) only applies if you use CEMS.
§ 63.8(g)	Yes	Only applies if you use CEMS.
§ 63.9(a)	Yes.	
§ 63.9(b)(1)	Yes.	
§ 63.9(b)(2)	Yes	Except § 63.3400(b)(1) requires submittal of initial notification for existing affected sources no later than 1 year before compliance date.
§ 63.9(b)(3)–(5)	Yes.	

TABLE 2 TO SUBPART JJJJ OF PART 63.—APPLICABILITY OF 40 CFR PART 63 GENERAL PROVISIONS TO SUBPART JJJJ—Continued

General provisions reference	Applicable to subpart JJJJ	Explanation
§ 63.9(c)–(e)	Yes.	
§ 63.9(f)	No	Subpart JJJJ does not require opacity and visible emissions observations.
§ 63.9(g)	Yes	Provisions for COMS are not applicable.
§ 63.9(h)(1)–(3)	Yes.	
§ 63.9(h)(4)	No	Reserved.
§ 63.9(h)(5)–(6)	Yes.	
§ 63.9(i)	Yes.	
§ 63.9(j)	Yes.	
§ 63.10(a)	Yes.	
§ 63.10(b)(1)–(3)	Yes	§ 63.10(b)(2)(i) through (v) only apply if you use a capture and control system.
§ 63.10(c)(1)	Yes.	
§ 63.10(c)(2)–(4)	No	Reserved.
§ 63.10(c)(5)–(8)	Yes.	
§ 63.10(c)(9)	No	Reserved.
§ 63.10(c)(10)–(15)	Yes.	
§ 63.10(d)(1)–(2)	Yes.	
§ 63.10(d)(3)	No	Subpart JJJJ does not require opacity and visible emissions observations.
§ 63.10(d)(4)–(5)	Yes.	
§ 63.10(e)(1)–(2)	Yes	Provisions for COMS are not applicable.
§ 63.10(e)(3)–(4)	No.	
§ 63.10(f)	Yes.	
§ 63.11	No.	
§ 63.12	Yes.	
§ 63.13	Yes.	
§ 63.14	Yes	Subpart JJJJ includes provisions for alternative ASME test methods that are incorporated by reference.
§ 63.15	Yes.	

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