



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

12/18/2008

RALPH KYANKO  
KOKOSING MATERIALS INC. PLANT #1  
PO BOX 334  
FREDERICKTOWN, OH 43019

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0370010049  
Permit Number: P0087513  
Permit Type: Renewal  
County: Richland

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc).

Sincerely,

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

Cc: Ohio EPA-NWDO

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
KOKOSING MATERIALS INC. PLANT #1**

Facility ID: 0370010049  
Permit Number: P0087513  
Permit Type: Renewal  
Issued: 12/18/2008  
Effective: 12/18/2008  
Expiration: 12/18/2013





**Air Pollution Permit-to-Install and Operate**  
for  
**KOKOSING MATERIALS INC. PLANT #1**

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Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0087513  
**Facility ID:** 0370010049  
**Effective Date:** 12/18/2008

## Authorization

Facility ID: 0370010049  
Application Number(s): A0018514  
Permit Number: P0087513  
Permit Description: Direct Final Renewal FEPTIO for a 400 TPH Drum Mix Asphalt Plant (does not need to be issued draft - was issued draft as a PTI)  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 12/18/2008  
Effective Date: 12/18/2008  
Expiration Date: 12/18/2013  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15  
This document constitutes issuance to:

KOKOSING MATERIALS INC. PLANT #1  
46 EAST LONGVIEW  
MANSFIELD, OH 44905

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

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

Ohio EPA DAPC, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0087513

**Facility ID:** 0370010049

**Effective Date:** 12/18/2008

## Authorization (continued)

Permit Number: P0087513

Permit Description: Direct Final Renewal FEPTIO for a 400 TPH Drum Mix Asphalt Plant (does not need to be issued draft - was issued draft as a PTI)

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

**Emissions Unit ID:**

**P901**

Company Equipment ID:

400 TPH, Drum Mix Asphalt Plant w/ BGHS; Plant 1

Superseded Permit Number:

03-14028

General Permit Category and Type:

Not Applicable



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**Final Permit-to-Install and Operate**

**Permit Number:** P0087513

**Facility ID:** 0370010049

**Effective Date:** 12/18/2008

## **A. Standard Terms and Conditions**



**1. What does this permit-to-install and operate ("PTIO") allow me to do?**

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

**2. Who is responsible for complying with this permit?**

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

**3. What records must I keep under this permit?**

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

**4. What are my permit fees and when do I pay them?**

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

**5. When does my PTIO expire, and when do I need to submit my renewal application?**

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

**6. What happens to this permit if my project is delayed or I do not install or modify my source?**

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

**7. What reports must I submit under this permit?**

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

**8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?**

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

**9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?**

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



**10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?**

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

**11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?**

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

**12. What happens if one or more emissions units operated under this permit is/are shut down permanently?**

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

**13. Can I transfer this permit to a new owner or operator?**

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



State of Ohio Environmental Protection Agency  
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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

**14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?**

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

**15. What happens if a portion of this permit is determined to be invalid?**

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



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Division of Air Pollution Control

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## **B. Facility-Wide Terms and Conditions**



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0087513

**Facility ID:** 0370010049

**Effective Date:** 12/18/2008

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0087513

**Facility ID:** 0370010049

**Effective Date:** 12/18/2008

## **C. Emissions Unit Terms and Conditions**



**1. P901, 400 TPH, Drum Mix Asphalt Plant w/ BGHS; Plant 1**

**Operations, Property and/or Equipment Description:**

400 ton per hour drum-mix asphalt plant with baghouse. Modification to PTI 03-13972 issued on 4-29-03 to include federally enforceable emission limitations.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

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

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Stack Emissions: 13.20 lbs particulate emissions (PE)/hr  48.00 lbs sulfur dioxide (SO <sub>2</sub> )/hr  40.00 lbs nitrogen oxide (NO <sub>x</sub> )/hr  120.00 lbs carbon monoxide (CO)/hr  56.00 lbs volatile organic compounds (VOC)/hr  See b)(2)a.  See b)(2)b.
b.	OAC rule 3745-31-05(D)	8.25 tons PE per rolling, 12-month period [See b)(2)g.]  2.50 tons fugitive PE per rolling, 12-month period [See b)(2)g.]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		30.00 tons SO <sub>2</sub> per rolling, 12-month period [See b)(2)g.]  25.00 tons NO <sub>x</sub> per rolling, 12-month period [See b)(2)g.]  75.00 tons CO per rolling, 12-month period [See b)(2)g.]  35.00 tons VOC per rolling, 12-month period [See b)(2)g.]
c.	40 CFR, Part 60, Subpart I	0.04 gr PE/dscf of exhaust gas  Emissions from the baghouse stack shall not exhibit 20% opacity, or greater.
d.	OAC rule 3745-17-11(B)	See b)(2)h.
e.	OAC rule 3745-17-07(A)	See b)(2)i.
f.	OAC rule 3745-17-07(B)	See b)(2)j.
g.	OAC rule 3745-17-08(B)	See b)(2)k.
h.	OAC rule 3745-18-06(E)	See b)(2)h.
i.	OAC rule 3745-21-08(B)	See b)(2)l.
j.	OAC rule 3745-21-07(B)	See b)(2)l.

(2) Additional Terms and Conditions

- a. The emission limitations per rolling, 12-month period contained in b)(1) are based on production restrictions [See c)(2)] for the purpose of establishing federally enforceable limitations to avoid Prevention of Significant Deterioration (PSD) and Title V applicability. For purposes of federal enforceability, a limitation on OC emissions effectively restricts volatile organic compound (VOC) emissions.
- b. The permittee shall properly install (or have properly installed), adjust, operate, and maintain a baghouse to serve this emissions unit, including enclosures, ductwork, fans, and any other equipment necessary to capture, contain, and vent particulate emissions to the baghouse serving this emissions unit, in accordance with the manufacturer's recommendations, instructions, and operating manuals, and to the extent possible with good engineering design.
- c. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the aggregate storage bins.
- d. The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.



- e. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and 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 this Permit to Install.

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.

- f. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart I.
- g. The requirements established pursuant to this rule are less stringent than, or equal in stringency to, the control measure requirements in section b)(2)c.
- h. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- i. "Best Available Technology" (BAT) control requirements for this emissions unit has been determined to be the following:
  - i. Use of baghouse for PE control of drum mix operations. The baghouse control system exhaust shall meet the requirements of 40 CFR Part 60, Subpart I (0.04 gr PE/dscf of exhaust gas) and shall achieve a 100% capture efficiency;
  - ii. Use of best available control measures [See b)(2)c.]
- j. The requirements of this rule also include compliance with 40 CFR Part 60, Subpart I, OAC rule 3745-31-05(C), and OAC rule 3745-17-07(B).
- k. The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit P901. If the inherent moisture in the asphalt plant raw material is not sufficient to comply with the opacity restrictions in section b)(2)j., the permittee shall install equipment to apply water or any other suitable dust suppressant, at appropriate locations on the line.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- l. Visible fugitive particulate emissions from material handling operations for emissions unit P901 shall not exceed the following opacity restrictions:

Emission Point (company ID), Equipment Type, Opacity Limit as a Three-Minute Average, Regulatory Basis for Limit



material unloading into feeder bins, transfer point, 20%, OAC rule 3745-17-07(B)

material transfer from feeder bin conveyor to dryer feed conveyor, transfer point, 20%, OAC rule 3745-17-07(B)

material transfer from dryer feed conveyor to dryer, transfer point, 20%, OAC rule 3745-17-07(B)

c) Operational Restrictions

- (1) The baghouse and associated control equipment serving this emissions unit shall be employed all times the emissions unit is in operation.
- (2) The maximum annual asphalt production rate for this emissions unit shall not exceed 500,000 tons per year, based upon a rolling, 12-month summation of the asphalt production.
- (3) The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for CO and NOx.
- (4) The permittee may substitute recycled asphalt aggregates in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials introduced at any given time.
- (5) All used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property	Allowable Specifications
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
PCB's	2 ppm, maximum*
total halogens	4000 ppm maximum**
mercury	1 ppm, maximum
flash point	100 F, minimum
heat content	135,000 Btu/gallon, minimum
sulfur content	0.5%, by weight, maximum

\*If the permittee is burning used oil with any quantifiable level (2 ppm or greater) of PCB's, then the permittee is subject to the notification requirements of 40 CFR 279.62.

\*\*Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR Part 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier ["marketer" in 40 Part CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.



- (6) The permittee shall only employ materials/fuels listed in the permit to install application. Any changes in the materials employed/combusted may be deemed a "modification" to the emissions unit and, as such will require prior notification to and approval from the Ohio EPA, Division of Air Pollution Control, Northwest District Office.
  - (7) The permittee may not burn any used oil which does not meet the specifications listed in OAC rule 3745-279-11 without first obtaining an air permit to install that authorizes the burning of such used oil. The burning of used oil that does not meet specifications listed in OAC rule 3745-279-11 is subject to OAC rule 3745-279-60 through 67 and the applicable portions of 40 CFR part 761. In addition, if the permittee is burning used oil which exceed the mercury limitation and falls below the heat content limitation listed in term c)(5), then this may trigger the requirement to apply for and obtain an air permit to install.
  - (8) The burning of hazardous waste is prohibited without first complying with all applicable state and federal hazardous waste and air regulations and permits.
  - (9) The permittee shall conduct burner performance tuning for purposes of minimizing emissions. Burner performance tuning shall contain at a minimum the evaluation of and adjustment to manufacturer's specifications of the following:
    - a. Fuel flow to the burner (for fuel oil and on spec used oil);
    - b. Differential pressure of the baghouse to ensure proper air flow through the plant;
    - c. Flue gas analysis (of gases present in the drum and or stack) for CO, O<sub>2</sub>, CO<sub>2</sub>, and NO<sub>x</sub>;
    - d. Fuel pressure; and
    - e. For burners that require compressed air for proper operation, correct pressure at the burner.
  - (10) The permittee shall conduct an initial burner tuning within 30 production days after commencement of the production season. The permittee shall conduct another burner tuning within the time period of 90 to 120 production days after the initial burner tuning. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year.
  - (11) In addition to the burner tuning required above, the permittee shall conduct additional burner tuning, within 30 production days, for each type of fuel burned during the production season that is different than the fuel(s) burned during the initial burner tuning or the burner tuning described above that occurs 90 to 120 production days after the initial burner tuning.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information:
    - a. the asphalt production for each month;



- b. the rolling, 12-month summation of the asphalt production; and
  - c. the maximum percentage of RAP used for any mix.
- (2) For each shipment of distillate oil, received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittees or oil supplier's analyses for sulfur content and heat content.
- (3) The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the rotary drum, the feed hoppers and cold aggregate elevator/conveyor serving this emissions unit. If visible emissions are observed, the permittee shall note the following in the operation 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (4) While performing each burner tuning, the permittee shall record the results of the burner tuning using the Burner Tuning Reporting Form Asphalt Concrete Plants form. An alternative form may be used upon approval of the appropriate Ohio EPA District Office of local air agency.
- (5) The permittee shall perform daily 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (6) Except as otherwise provided in this section, the permittee shall perform inspections of the fugitive material handling operations in accordance with the following frequencies:

material handling operation(s), minimum inspection frequency

all material unloading into feeder bins, once during each day of operation

all material transfer from feeder bin conveyor to dryer feed conveyor, once during each day of operation

all material transfer from dryer feed conveyor to dryer, once during each day of operation

- (7) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during times of asphaltic concrete production.
- (8) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (9) 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.



- (10) The permittee shall properly operate and maintain portable devices to monitor the concentration of NO<sub>x</sub>, CO, O<sub>2</sub>, and CO<sub>2</sub> present in the flue gases generated within the drum and/or stack during the burner performance tuning. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.
  - (11) While performing the required burner tuning, the permittee shall record the following information:
    - a. Date of the burner tuning;
    - b. Results of the evaluation of the operating parameters listed above in c)(9);
    - c. Detail list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturer's specifications; and
    - d. Type of fuel(s) employed during the burner tuning.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
  - (2) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month asphalt production limitation, and, for the first 12 calendar months of operation following the startup of this emissions unit, all exceedances of the maximum allowable monthly cumulative production levels. These reports are due by the dates described in Part I - General Terms and Conditions of this permit under section (A)(2).
  - (3) The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil specifications found in OAC rule 3745-279-11 and the applicable portions of 40 CFR part 761 and shall also notify Ohio EPA if any used oil exceed the mercury limitation and falls below the heat content limitation listed in term c)(5) within thirty days after the exceedance occurs. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11 and the applicable portions of 40 CFR part 761, the permittee is subject to that rule and must comply with all applicable provisions of that rule(s).
  - (4) The permittee shall notify the Director in writing of any record in which the baghouse and/or associated control equipment serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director within 30 days after the event occurs.



f) Testing Requirements

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

a. Emission Limitation: 0.04 gr PE/dscf of exhaust gas and 13.20 lbs PE/hr

Applicable Compliance Method: Compliance shall be based on the results of emission testing conducted in accordance with the procedures and requirements specified in section f)(2).

b. Emission Limitation: 8.25 tons PE per rolling, 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying a maximum rolling 12-month asphalt production rate of 500,000 tons by the AP-42 emission factor of 0.033 lb PE/ton of product, in Table 11.1-3 (12/00) and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).

c. Emission Limitation: 2.50 tons fugitive PE per rolling, 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying an AP-42 emission factor of 0.01 lb PE/ton of material loaded, in section 13.2.4.3 (1/95) by a maximum annual material handling operations throughput of 500,000 tons and dividing by 2000 lbs/ton. The maximum annual material handling throughput is based on the annual asphalt production restrictions of 500,000 tons per rolling 12-month period. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).

d. Emission Limitation: 48.00 lbs SO<sub>2</sub>/hr

Applicable Compliance Method: Compliance shall be based on the results of emission testing conducted in accordance with the procedures and requirements specified in section f)(2).

Emission Limitation: 30.00 tons SO<sub>2</sub> per rolling 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying a maximum rolling 12-month asphalt production rate of 500,000 tons by a company supplied emission factor of 0.12 lb SO<sub>2</sub>/ton of product (verified by testing in Section f)(2) and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).



- e. Emissions Limitation: 40.00 lbs NOx/hr

Applicable Compliance Method: Compliance shall be based on the results of emission testing conducted in accordance with the procedures and requirements specified in section f)(2).

Emissions Limitation: 25.00 tons NOx per rolling 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying a maximum rolling 12-month asphalt production rate of 500,000 tons by a company supplied emission factor of 0.10 lb NOx/ton of product [verified by testing in Section f)(2)] and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).

- f. Emissions Limitation: 120.00 lbs CO/hr

Applicable Compliance Method: Compliance shall be based on the results of emission testing conducted in accordance with the procedures and requirements specified in section f)(2).

Emissions Limitation: 75.00 tons CO per rolling 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying a maximum rolling 12-month asphalt production rate of 500,000 tons by a company supplied emission factor of 0.30 lb CO/ton of product [verified by testing in Section f)(2)] and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).

- g. Emissions Limitation: 56.00 lbs VOC/hr

Applicable Compliance Method: Compliance shall be based on the results of emission testing conducted in accordance with the procedures and requirements specified in section f)(2).

Emissions Limitation: 35.00 tons VOC per rolling 12-month period

Applicable Compliance Method: The emission limitation was established by multiplying a maximum rolling 12-month asphalt production rate of 500,000 tons by a company supplied emission factor of 0.14 lb VOC/ton of product [verified by testing in Section f)(2)] and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with this annual asphalt production rate, compliance with the emission limitation per rolling 12-month period will be assumed. Compliance with the rolling 12-month asphalt production rate shall be demonstrated by the monitoring and recordkeeping in Section d)(4).



- h. Emissions Limitation: Visible fugitive particulate emissions shall not exceed 20% opacity as a three-minute average

Applicable Compliance Method: Compliance with the visible emission limitation for the material handling operation(s) identified above 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, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- i. Emission Limitation: Emissions from the baghouse stack shall not exhibit 20% opacity, or greater.

Applicable Compliance Method: If required compliance shall be demonstrated in accordance with USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

- (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 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit.

- b. The emission testing shall be conducted to demonstrate compliance with the following:

- i. 13.20 lbs/hr PE
- ii. 0.04 gr/dscf
- iii. 48.00 lbs/hr SO<sub>2</sub>
- iv. 120.00 lbs/hr CO
- v. 56.00 lbs/hr VOC
- vi. 40.00 lbs/hr NO<sub>x</sub>

- c. The emission testing shall also be conducted to verify the following company supplied emission factors:

- i. lbs SO<sub>2</sub>/ton of product
- ii. lbs NO<sub>x</sub>/ton of product
- iii. lbs CO/ton of product
- iv. lbs VOC/ton of product

- d. The following test method(s) shall be employed to demonstrate compliance with the above emission limitations and verify company supplied emission factors:

- i. Methods 1 - 4 of 40 CFR Part 60, Appendix A



- ii. for PE and gr/dscf - Method 5, of 40 CFR Part 60, Appendix A.
- iii. for SO<sub>2</sub> - Method 6, of CFR Part 60, Appendix A.
- iv. for CO - Method 10, of CFR Part 60, Appendix A.
- v. for NO<sub>x</sub> - Method 7, of CFR Part 60, Appendix A.
- vi. for VOC - Method 18, 25, or 25A of CFR Part 60, Appendix A.

The test(s) shall be conducted while the emissions unit is operating at its maximum capacity unless otherwise specified or approved by the appropriate Ohio EPA District or local air agency.

- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. The company shall demonstrate in the "Intent to Test" what is "Worst Case". This "Worst Case" scenario shall be pre-approved by the Ohio EPA, Division of Air Pollution Control, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emission 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 field office's refusal to accept the results of the emissions test(s).
- f. Personnel from the Ohio EPA, Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northwest District Office.

(3) Burner Tuning

- a. Introduction

The permittee is required to conduct periodic tuning of the asphalt plant burner. The purpose of this tuning is to ensure that the burner is adjusted properly so that air pollution emissions remain in compliance with allowable emission rates and are minimized.

- b. Qualifications for Burner Tuning

Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a minimum, have passed manufacturer's training concerning burner tuning, or



have been trained by someone who has completed the manufacturer's training concerning burner tuning.

c. **Portable Monitor Requirements**

The permittee shall properly operate and maintain portable device(s) to monitor the concentration of NO<sub>x</sub>, O<sub>2</sub> and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.

d. **Burner Tuning Procedure**

The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emissions limitations as described in f)(1)a. The baselines shall be determined for NO<sub>x</sub> and CO. Sampling should measure the exhaust gas values exiting the baghouse. The duration of each sample shall follow the portable monitor manufacturer's recommendations. Record these values on the Burner Tuning Reporting Form for Asphalt Concrete Plants form [as found in g)(2)] in the "Recent Stack Test Basis Values" column.

Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in f)(2)e. The general procedure for tuning the burner involves the following steps:

- i. Review the plant operations to ensure the plant is operating normally.
- ii. Confirm that the portable monitor is calibrated per the manufacturer's specifications.
- iii. Using the calibrated monitor and monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for NO<sub>x</sub> and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the Burner Tuning Reporting Form for Asphalt Concrete Plants form.
- iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to section v. below. The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 percent of the baseline values. Make any necessary adjustments and repairs. Repeat sections iii. and iv. until the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values.



- v. Once all of the measured stack exhaust gas values are within the 115 percent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the Burner Tuning Reporting Form for Asphalt Concrete Plants form.
- vi. By January 31st of each year, submit a copy of all Burner Tuning Reporting Form for Asphalt Concrete Plants forms produced during the past calendar year to the Ohio EPA District Office or local air agency responsible for the permitting of the facility.

e. Burner Tuning Frequency

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date.

g) Miscellaneous Requirements

- (1) None.