



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
FRANKLIN COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08336**

**DATE: 7/24/2001**

Kokosing Materials Inc  
Ralph Kyanko  
Post Office Box 334 17531 Waterford Road  
Fredericktown, OH 43019

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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 within thirty (30) days after the notice of the Directors 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. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

CDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: 7/24/2001  
Effective Date: 7/24/2001**

**FINAL PERMIT TO INSTALL 01-08336**

Application Number: 01-08336  
APS Premise Number: 0125042399  
Permit Fee: **\$1100**  
Name of Facility: Kokosing Materials Inc  
Person to Contact: Ralph Kyanko  
Address: Post Office Box 334 17531 Waterford Road  
Fredericktown, OH 43019

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**6187 Westerville Rd  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**400 TPH asphalt plant with 66,800 ACFM baghouse.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., 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.)

#### **3. 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.

#### **4. 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.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction 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).

**6. 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.

**7. 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.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

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

**11. Applicability**

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

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**Kokosing Materials Inc**  
**PTI Application: 01-08336**  
**Issued: 7/24/2001**

**Facility ID: 0125042399**

#### **14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### **15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### **B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	10.3
CO	46.0
OC	36.4
NO <sub>x</sub>	30.0
SO <sub>2</sub>	29.0

**Kokosing Materials Inc**  
**PTI Application: 01 09226**  
**Issued**

**Facility ID: 0125042399**

Emissions Unit ID: **P901**

## **R SPECIFIC EMISSIONS UNIT(S)**

### **A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

Operations, Property,  
and/or Equipment

P901 - 400 tons/hour hot mix  
asphalt plant with baghouse  
(Chapter 31 modification to PTI 01-  
07865 issued May 12, 1999)

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**Kokos**

**PTI A**

**Issued: 7/24/2001**

Emissions Unit ID: **P901**

Applicable Rules/Requirements

OAC rule 3745-31-05(A)(3)

Aggregate storage bins and cold  
aggregate elevator

OAC rule 3745-31-05(D)

		<p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p>
<p>OAC rule 3745-17-07(A) OAC rule 3745-17-07(B) OAC rule 3745-17-08(B) OAC rule 3745-17-11 OAC rule 3745-18-06(E) 40 CFR Part 60, Subpart I</p>	<p>OAC rule 3745-17-07(B)</p>	<p>Particulate emissions (PE) shall not exceed 10.3 lbs/hr and 10.26 tons/yr when burning on spec used oil, natural gas or number 2 fuel oil.</p> <p>PE shall not exceed 0.03 gr/dscf when burning on-spec used oil, number 2 fuel or natural gas.</p> <p>Carbon monoxide (CO) emissions shall not exceed 46.04 lbs/hr when burning on spec used oil.</p> <p>CO emissions shall not exceed 22.4 lbs/hr and 22.4 tons/yr when burning natural gas or number 2 fuel oil.</p> <p>Nitrogen Oxide (NO<sub>x</sub>) emissions shall not exceed 30.0 lbs/hr when burning on spec used oil, natural gas or number 2 fuel oil.</p>
<p>OAC rule 3745-31-05(A)(3)</p>		<p>Sulfur Dioxide (SO<sub>2</sub>) emissions shall not exceed 29.0 lbs/hr when burning on spec used oil.</p>
<p>OAC rule 3745-17-08(B)</p>		<p>SO<sub>2</sub> emissions shall not exceed 22.4 lbs/hr and 22.4 tons/yr when burning natural gas or number 2 fuel oil.</p> <p>Organic Compound (OC) emissions shall not exceed 36.4 lbs/hr when burning on spec used oil.</p> <p>OC emissions shall not exceed 27.6 lbs/hr when burning natural gas or</p>

**Kokos****PTI A****Issued: 7/24/2001**Emissions Unit ID: **P901**

number 2 fuel oil.

Arsenic, cadmium, chromium, and lead emissions are limited by the fuel specifications in A.2.c below and A.2.d.

Visible particulate emissions from the stack shall not exceed 20% opacity, as a 3-minute average.

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

Reasonably available control measures that are sufficient to minimize or eliminate visible emission of fugitive dust (see section A.I.2.a).

No visible emission of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.

See section A.I.2.b below.

The requirements of this rule include compliance with the requirements of OAC rule 3745-31-05(D).

CO emissions from burning on-spec used oil shall not exceed 46.04 tons per rolling 12-month period.

NO<sub>x</sub> emissions from burning on-spec used oil, natural gas or number 2 fuel oil shall not exceed

30.0 tons per rolling 12-month period.

SO<sub>2</sub> emissions from burning on-spec used oil shall not exceed 29.0 tons per rolling 12-month period.

OC emissions from burning on-spec used oil shall not exceed 36.4 tons per rolling 12 month period.

OC emissions from burning natural gas or number 2 fuel oil shall not exceed 27.6 tons per rolling 12 month period.

See II.B.3 below.

The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

Visible emissions of fugitive dust shall be less than or equal to 10 percent opacity, as a 3-minute average.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B).

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

elevator loading area.

The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.

The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** The permittee shall ensure that the baghouse is operated with sufficient air volume to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture to the extent possible with good engineering design.
- 2.b** In accordance with OAC rule 3745-31-05(A)(3), this emission unit has been approved for the use of recycled asphalt products (RAP). The permittee shall be restricted to the maximum percentage of RAP as specified in the most recent compliance demonstration utilizing RAP.
- 2.c** All used oil burned in this emissions unit shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
total halogens	4000 ppm, maximum
flash point	100°F, minimum
heat content	135,000 Btu/gallon, minimum
PCB*	< 2 ppm maximum
mercury	1 ppm, maximum

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

**2.d** Used oil containing more than one thousand parts per million (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 CFR Part 266.43(a)] has demonstrated to Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

**B. Operational Restrictions**

- 1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.
- 2. The permittee may not receive or burn any used oil which does not meet the specifications listed in A.2.c of this permit without first obtaining a permit to install that authorizes the burning of such off-specification used oil. The burning of off-specification used oil is subject to OAC rule

3745-279-60 through 67.

3. The maximum annual operating hours for this emissions unit shall not exceed 2000 hours, based upon a rolling, 12-month summation of the operating hours. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	350
1-2	700
1-3	1000
1-4	1250
1-5	1500
1-6	1750
1-7	2000
1-8	2000
1-9	2000
1-10	2000
1-11	2000
1-12	2000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall receive a chemical analysis with each shipment of on-spec oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
- date of shipment or delivery;
  - quantity of on-spec oil received;
  - the Btu value of the used oil;
  - the flash point of the used oil;
  - the arsenic content;

- f. the cadmium content;
- g. the chromium content;
- h. the lead content;
- i. the PCB content;
- j. the total halogen content; and
- k. the mercury content.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Ohio EPA, Central District Office upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, or any used oil stored at this facility, or of any used oil sampled at the dryer.

- 2. The permittee shall properly install, 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). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 3. The permittee shall maintain monthly records of the following information:
  - a. the operating time;
  - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours; and
  - c. the type and amount (gallons and/or cubic feet) of fuel burned.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

- 4. 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 enclosures for the hot aggregate elevator, vibrating screens, weigh hopper, aggregate storage bins and cold aggregate

Emissions Unit ID: **P901**

elevator associated with this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operation log. If visible particulate emissions are observed, the permittee shall also note the following in the operation log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emission are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any abnormal visible emission incident; and
- e. any corrective actions taken to eliminate the abnormal visible emissions.

The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

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 operation log. If visible emissions are observed, the permittee shall also note the following in the operation log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operation;
  - c. if the emissions are not representative of normal operation, the cause of the abnormal emissions;
  - d. the total duration of any abnormal visible emission incident; and
  - e. any corrective actions taken to eliminate the abnormal emissions.

The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

#### **D. Reporting Requirements**

1. The permittee shall submit 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. These reports are due by the date described in Part 1- General Terms and Conditions of this permit under section (A)(1).
2. 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. If the permittee is burning used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part 1- General Terms and Conditions of this permit under section (A)(1).
4. The permittee shall submit deviation (excursion) reports to the Central District Office that identify any of the following occurrences:
  - 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 abnormal visible particulate emissions.

These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

5. The permittee shall submit deviation reports to the Central District Office that identify any of the following occurrences:
  - a. identify all days during which any visible fugitive particulate emissions were observed from the enclosures for the hot aggregate elevator, vibrating screens, weigh hopper, aggregate storage bins and cold aggregate elevator associated with this emissions unit; and
  - b. describe any corrective actions taken to eliminate the abnormal visible particulate emissions.

These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

## **E. Testing Requirements**

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

- a. Emissions Limitation:

Particulate (PM) emissions shall not exceed 10.3 lbs/hr and 0.03 gr/dscf when burning on-spec used oil, number 2 fuel oil or natural gas.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but no later than 120 days after initial startup of the emissions unit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate matter.
- iii. The following test method(s) shall be employed to demonstrate compliance with allowable mass emission rate(s): Method 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.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, burning on-spec oil and using virgin materials, unless otherwise specified or approved by the Central District Office. If required, the unit shall also be tested while burning number 2 fuel and/or natural gas.

- b. Emissions Limitation:

PM emissions from burning on-spec used oil, natural gas or number 2 fuel oil shall not exceed 10.26 tons per rolling 12 month period.

Applicable Compliance Method:

Compliance shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.

- c. Emissions Limitation:

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**Kokos**

**PTI A**

**Issued: 7/24/2001**

Emissions Unit ID: **P901**

Carbon Monoxide (CO) emissions from burning on-spec used oil shall not exceed 46.0 lbs/hr.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but no later than 120 days after initial startup of the emissions unit.
  - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for CO.
  - iii. The following test method(s) shall be employed to demonstrate compliance with allowable mass emission rate(s) for CO: Method 10 of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, burning on-spec oil and using recycle product, unless otherwise specified or approved by the Central District Office.
- d. Emission Limitation:  
CO emissions from burning number 2 fuel or natural gas shall not exceed 22.4 lbs/hr.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the emission factor (pound per ton of asphalt) as determined from the most recent stack test (required in PTI 01-7865) by the maximum capacity of the emission unit (400 tons per hour).

If required, the following test method shall be employed to demonstrate compliance with the allowable mass emission rate for CO: Method 10 of 40 CFR Part 60. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- e. Emission Limitation:  
CO emissions from burning on-spec used oil shall not exceed 46.0 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.

- f. Emission Limitation:  
CO emissions from burning natural gas or number 2 fuel shall not exceed 22.4 tons per rolling 12-month period.
- Applicable Compliance Method:  
Compliance shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.
- g. Emission Limitation:  
Nitrogen Oxide (NO<sub>x</sub>) emissions from burning on-spec used oil, natural gas or number 2 fuel shall not exceed 30.0 lbs/hr.
- Applicable Compliance Method:  
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- i. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emission unit will be operated, but no later than 120 days after initial startup of the emissions unit.
  - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO<sub>x</sub>.
  - iii. The following test method(s) shall be employed to demonstrate compliance with allowable mass emission rates(s) for NO<sub>x</sub>: Method 7 of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, burning on-spec used oil and using recycle product, unless otherwise specified or approved by the Central District Office. If required, emissions testing shall be run while operating with number 2 fuel and/or natural gas.
- h. Emission Limitation:  
NO<sub>x</sub> emissions from burning on-spec used oil, natural gas or number 2 fuel shall not exceed 30.0 tons per rolling 12-month period.
- Applicable Compliance Method:  
Compliance shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.

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**Kokos**

**PTI A**

**Issued: 7/24/2001**

Emissions Unit ID: **P901**

- i. Emission Limitation:  
Sulfur dioxide (SO<sub>2</sub>) emissions from burning on-spec used oil shall not exceed 29.0 lbs/hr.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but no later than 120 days after initial startup of the emissions unit.
  - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for SO<sub>2</sub>.
  - iii. The following test method(s) shall be employed to demonstrate compliance with allowable mass emission rates (s) for SO<sub>2</sub>: Method 6 of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. The test(s) shall be conducted while the emission unit is operating at or near its maximum capacity, burning on-spec used oil and using recycle product, unless otherwise specified or approved by the Central District Office.
- j. Emission Limitation:  
SO<sub>2</sub> emissions from burning natural gas or number 2 fuel oil shall not exceed 22.4 lbs/hr.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the emission factor (pound per ton of asphalt) as determined from the most recent stack test (required in PTI 01-7865) by the maximum capacity of the emission unit (400 tons per hour).

If required, the following test method shall be employed to demonstrate compliance with the allowable mass emission rate for SO<sub>2</sub>: Method 6 of 40 CFR Part 60. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- k. Emission Limitation:  
SO<sub>2</sub> emissions from burning on-spec used oil shall not exceed 29.0 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.

- l. Emission Limitation:  
SO<sub>2</sub> emissions from burning natural gas or number 2 fuel oil shall not exceed 22.4 tons per rolling 12-month period.  
  
Applicable Compliance Method:  
Compliance with this emission limitation shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.
- m. Emission Limitation:  
Organic Compound (OC) emissions from burning on-spec used oil shall not exceed 36.4 lbs/hr.  
  
Applicable Compliance Method:  
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - i. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but no later than 120 days after initial startup of the emission unit.
  - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for OC.
  - iii. The following test method(s) shall be employed to demonstrate compliance with allowable mass emission rate(s) for OC: Method 25 of 40 CFR Part 60. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, burning on-spec oil and using recycle product, unless otherwise specified or approved by the Central District Office.
- n. Emission Limitation:  
OC emissions from burning natural gas or number 2 fuel oil shall not exceed 27.6 pounds hour.  
  
Applicable Compliance Method:  
Compliance with this emission limitation shall be demonstrated by multiplying the emission factor (pound per ton of asphalt) as determined from the most recent stack test (required in PTI 01-7865) by the maximum capacity of the emission unit (400 tons per hour).  
  
If required, the following test method shall be employed to demonstrate compliance with

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the allowable mass emission rate for OC: Method 25 of 40 CFR Part 60. Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- o. Emission Limitation:  
OC emission from burning on-spec used oil shall not exceed 36.4 tons per rolling 12 month period.
- Applicable Compliance Method:  
Compliance with this emission limitation shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.
- p. Emission Limitation:  
OC emissions from burning natural gas or number 2 fuel oil shall not exceed 27.6 tons per rolling 12 month period.
- Applicable Compliance Method:  
Compliance with this emission limitation shall be determined by calculation using the maximum hourly emission rate observed during stack testing multiplied by the number of hours operated during the 12 month rolling period.
- q. Emission Limitation:  
Arsenic, cadmium, chromium and lead emissions are limited by the fuel specifications in A.2.c.
- Applicable Compliance Method:  
Compliance with the emissions limitation for arsenic, cadmium and lead shall be demonstrated by the monitoring and recordkeeping in Section C.1 of this permit.
- r. Emission Limitation:  
Visible particulate emissions from the stack shall not exceed 20% opacity as a three minute average.
- Applicable Compliance Method:  
Compliance shall be determined using method 9 as set forth in 40 CFR part 60 Appendix A, as such appendix existed on July 1, 1996 and the modification listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
- s. Emission Limitation:  
No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.

**Kokosing Materials Inc**  
**PTI Application: 01 00226**  
**Issued**

**Facility ID: 0125042399**

Emissions Unit ID: **P901**

Applicable Compliance Method:

Compliance with the limitation on visible emission of fugitive dust found in Section A.1 of this permit shall be demonstrate by the monitoring and recordkeeping in Section C.4.

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- t. Emission Limitation:  
Visible particulate emission of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined using method 9 as set forth in 40 CFR part 60 Appendix A, as such appendix existed on July 1, 1996 and the modification listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates(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).

Personnel from the Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

## **F. Miscellaneous Requirements**

1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P901	400 tph drum mix asphalt plant	Subpart I

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 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);

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- 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:

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

and

**Kokos****PTI A****Issued: 7/24/2001**Emissions Unit ID: **P901**

Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

2. The terms and conditions contained within this PTI shall supersede the terms and conditions previously contained in PTI 01-07865 issued on May 12, 1999 for emissions unit P901.
3. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T004 - 15,000 gallon fixed roof tank for on specification oil	OAC rule 3745-31-05(A)(3)	Volatile Organic Compound (VOC) emissions shall not exceed 0.007 tons per year.
		See Part II.A.2.b below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	40 CFR 60 Subpart Kb	See Part II.C.1 and Part II.D.1 below.
	OAC rule 3745-21-09(L)	Exempt see section Part II.A.2.a 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.
- 2.b This emission unit shall employ submerged fill.

### B. 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.

**C. Monitoring and/or Recordkeeping Requirements**

1. In accordance with 40 CFR 60.116b(a) and 40 CFR 60.116b(b), the permittee shall keep readily accessible records for the life of the tank that document the dimensions and capacity of the tank.
2. The permittee shall maintain readily accessible 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.

**D. 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 Central District Office within 30 days of becoming aware of the occurrence.

**E. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Volatile Organic Carbon (VOC) emissions shall not exceed 0.007 tons per year.  
  
Applicable Compliance Method:  
VOC emissions due to standing and withdrawal losses from the storage tanks shall be determined using the most recent version of USEPA's "Tanks" program.

**Kokos**  
**PTI A**  
**Issued: 7/24/2001**

Emissions Unit ID: **T004**

**F. Miscellaneous Requirements**

1. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
T001	15,000 gallon fixed roof tank	Subpart 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 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:

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

and

Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, OH 43207

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08336 Facility ID: 0125042399

FACILITY NAME Kokosing Materials Inc

FACILITY DESCRIPTION 400 TPH asphalt plant with 66,800 ACFM baghouse. CITY/TWP Columbus

SIC CODE 2951 SCC CODE 30500205 EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION 400 tons/hour hot mix asphalt plant with bag house (Chapter 31 modification to PTI 01-07865 issued May 12, 1999)

DATE INSTALLED 5/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		10.3	10.3	10.3	10.3
PM <sub>10</sub>					
Sulfur Dioxide		29.0	29.0	29.0	29.0
Organic Compounds		36.4	36.4	36.4	36.4
Nitrogen Oxides		30.0	30.0	30.0	30.0
Carbon Monoxide		22.4	22.4	22.4	22.4
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? **Subpart I** NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

See additional terms and conditions

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS: N/A

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08336 Facility ID: 0125042399

FACILITY NAME Kokosing Materials Inc

FACILITY DESCRIPTION 400 TPH asphalt plant with 66.800 ACFM CITY/TWP Columbus

Emissions Unit ID: T004

SIC CODE 2951 SCC CODE 30500207 EMISSIONS UNIT ID T004

EMISSIONS UNIT DESCRIPTION 15,000 gallon fixed roof tank for on specification oil

DATE INSTALLED 4/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds			0.007		0.007
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? **Subpart Kb** NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

See additional terms and conditions

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES  NO

IDENTIFY THE AIR CONTAMINANTS: N/A

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

*Please fill out the following. If the checkbox does not work, replace it with an 'X'*

	Electronic	Additional information File Name Convention (your PTI # plus this letter)	Hard Copy	None
Calculations (required)	<input checked="" type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
Modeling form/results	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PTI Application (complete or partial)*	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08336

Facility ID: 0125042399

FACILITY NAME Kokosing Materials Inc

FACILITY DESCRIPTION 400 TPH asphalt plant with 66.800 ACFM CITY/TWP Columbus

Emissions Unit ID: T004

BAT Study	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other/misc.	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

[NSR Discussion](#)

Kokosing Materials operates a 400 ton per hour drum mix asphalt plant in Westerville, OH (Appendix A area) equipped with a baghouse. They have submitted a permit to install (PTI) to burn on-spec used oil. The plant is permitted (PTI 01-07865) to burn natural gas and number 2 fuel oil. The potential emissions of carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>) and organic compounds (OC) exceed Title V thresholds so they have requested a synthetic minor PTI. The permit has a cumulative 12-month limitation on operating hours and limitations on the first 12 months of operation.

A federal limitation for carbon monoxide was requested because the potential to emit was over 100 tons when burning on-spec oil. A federal limitation for NO<sub>x</sub> was requested because the potential to emit was over 100 tons when burning on-spec used oil, natural gas or number 2 fuel. A federal limitation for SO<sub>2</sub> was requested because the potential to emit was over 100 tons when burning on-spec used oil. A federal limitation for OC was requested because the potential to emit was over 100 tons when burning on-spec used oil, natural gas or number 2 fuel oil. A restriction placed on operating hours will ensure compliance regardless of the fuel type that is being used.

The increase in emissions from this emission unit does not trigger Ohio modeling significant emission rates. The emissions from this facility are not subject to the Ohio Air Toxics Policy.

BAT for particulate matter was set at 0.03 gr/dscf in the previous PTI (01-07865) and was more stringent than NSPS.

Applicable rules include 3745-31-05, 3745-17-07, 3745-17-08, 3745-17-11, 3745-18-06 and NSPS Subpart I.

## Calculations:

Emission limitations from the previous PTI were used in this permit for the natural gas and number 2 fuel oil due to Kokosing Materials' request. The limits are more stringent than what the limits would be under current asphalt plant policy regarding BAT. Therefore the old BAT limits were utilized in this permit.

On-spec used oil calculations

CO emission factor: 0.115 lb/ton (Information provided in PTI application 1/23/01)

CO hourly emissions: 400 tons/hr \* 0.115 lb/ton = 46.04 lbs/hr

CO potential to emit: 46.04 lbs/hr \* 8760 hr/yr \* 0.0005 tons/lb = 201 tons/yr

CO actual emissions: 46.04 lbs/hr \* 2000 hrs/yr \* 0.0005 tons/lb = 46.04 tons/yr

NO<sub>x</sub> emission factor: 0.075 lbs/ton (Information provided in PTI application 01-25-1999)

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08336

Facility ID: 0125042399

FACILITY NAME Kokosing Materials Inc

FACILITY DESCRIPTION 400 TPH asphalt plant with 66,800 ACFM CITY/TWP Columbus

Emissions Unit ID: T004

NO<sub>x</sub> hourly emissions: 0.075 lbs/ton \* 400 tph = 30.0 lbs/hrNO<sub>x</sub> potential to emit: 30 lbs/hr \* 8760 hrs/yr \* 0.0005 tons/lb = 131.4 tons/yrNO<sub>x</sub> actual emissions: 30.0 lbs/hr \* 2000 hrs/yr \* 0.0005 tons/lb = 30.0 tons/yrSO<sub>2</sub> emission factor: 0.098 lbs/ton ( AP-42, Table 4-11, 12/2000, Page 4-152, Ref. No. 25)SO<sub>2</sub> hourly emissions: 400 tons/hr \* 0.098 lbs/ton = 39.2 lbs/hrSO<sub>2</sub> potential to emit: 39.2 lbs/hr \* 8760 \* 0.0005 tons/lb = 171 tons/yrSO<sub>2</sub> actual emissions: 39.2 lbs/hr \* 2000 hr/yr \* 0.0005 tons/lb = 39.2 tons/yr

OC emissions factor: 0.091 lbs/ton (AP 42, 12/2000, Table 4-11, Page 4-152, Ref. No. 25)

OC hourly emissions: 400 tons/hr \* 0.091 lbs/ton = 36.4 lbs/hr

OC potential to emit: 36.4 lbs/hr \* 8760 hrs/yr \* 0.0005 tons/lb = 159 tons/yr

OC actual emission: 36.4 lbs/hr \* 2000 hrs/yr \* 0.0005 tons/lb = 36.4 tons/yr

Particulate emissions when burning number 2 fuel, natural gas or on-spec used oil:

Particulate emissions are based on OAC rule 3745-17-08(B)(3)(b) of 0.030 gr/dscf limit

Hourly PM: (0.03 gr/dscf) (39892 dscfm)(60min/hr) / (7000 lbs/gr) = 10.26 lbs/hr PM

Potential annual PM: (10.26 lbs/hr)(8760 hours) / (2000 lbs/hr) = 44.9 tons/yr PM

Proposed annual PM: (10.26 lbs/hr)(2000 hours) / (2000 lbs/hr) = 10.3 tons per year PM

Please complete for these type permits ([For PSD/NSR Permit, place mouse over this text](#)): Synthetic Minor Determination and/or  Netting Determination

Permit To Install ENTER PTI NUMBER HERE

A. Source Description

Kokosing Materials has submitted a PTI to burn used oil in its 400 ton per hour drum mix asphalt plant located in Westerville, OH. The facility will have the ability to use reclaimed asphalt pavement (RAP).

Based on the hourly maximum capacity of the asphalt plant and assuming it operated 8760 hours per year, the facility would exceed Title V thresholds for carbon monoxide, nitrogen oxide, sulfur dioxide, and organic compounds.

B. Facility Emissions and Attainment Status

The facility has a potential to emit as follows:

	Emissions	Pre-Synthetic Minor (tons)	Post-Synthetic Minor (tons)
P901	PM	44	10.26
	CO	201	46.04
	NO <sub>x</sub>	131.4	30.0

PTI Num

FACILITY

Emissions Unit ID: **T004**

FACILITY DESCRIPTION		CITY/TWP	Columbus
400 TPH asphalt plant with 66,800 ACFM baghouse.			
	SO <sub>2</sub>	171	39.2
	OC	159	36.4
T004	OC	0.007	0.007

C. Source Emissions

The pre-synthetic minor emissions assume that the facility operates at it's maximum hourly capacity every hour of the year. The post synthetic minor emissions assume that operating hours are restricted to 2,000 per rolling 12-month period.

D. Conclusion

This synthetic minor will effectively restrict the CO, OC, NO<sub>x</sub> and SO<sub>2</sub> emissions below Title V thresholds by limiting the operating time to 2000 hours per rolling, 12-month period. The operational restrictions including limitations on the first 12 months of operation, recordkeeping, reporting and testing requirements shall ensure that compliance with this permit is achieved and maintained.

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	10.3
CO	46.0
OC	36.4
NO <sub>x</sub>	30.0
SO <sub>2</sub>	29.0