

Synthetic Minor Determination and/or Netting Determination
Permit To Install **03-16316**

A. Source Description

This permit encompasses the equipment used for a batch-mix asphalt plant of 160 tons per hour maximum rated capacity. Including plant roadways and storage piles, and a diesel fired generator.

B. Facility Emissions and Attainment Status

This facility has requested a synthetic minor because it has concerns that it will no longer meet the requirements of Engineering Guide 61 regarding actual carbon monoxide emissions. Without the protection of Engineering Guide 61, potential emissions would exceed 100 TPY for carbon monoxide, VOC, and NOx. Federally enforceable restrictions will lower potential emissions of the above mentioned pollutants to less than 100 TPY. These restrictions will keep the company from the requirements Title V.

C. Source Emissions

The company has requested federally enforceable restrictions of varying monthly production limits and 180,000 production tons for the annual restriction. This limit will result in total (including the generator) permit allowable emissions totaling 38.43 TPY CO, 15.21 TPY VOC, and 19.09 TPY NOx.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL
WOOD COUNTY**

CERTIFIED MAIL

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

Application No: 03-16316

Fac ID: 0387040084

DATE: 6/12/2008

Bowers Asphalt and Paving, Inc.
David Bowers
6157 Walbridge Road
Walbridge, OH 43465

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43216-1049.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1700** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

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

CC: USEPA

NWDO

TOLEDO METRO AREA COUNCIL OF GOVTS.

IN

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WOOD COUNTY

PUBLIC NOTICE
ISSUANCE OF DRAFT PERMIT TO INSTALL **03-16316** FOR AN AIR CONTAMINANT SOURCE
FOR **Bowers Asphalt and Paving, Inc.**

On 6/12/2008 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Bowers Asphalt and Paving, Inc.**, located at **6157 Walbridge Road, Walbridge, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 03-16316:

Asphalt plant w/ baghouse, roadways, stockpiles and diesel generator.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

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



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 03-16316

Application Number: 03-16316
Facility ID: 0387040084
Permit Fee: **To be entered upon final issuance**
Name of Facility: Bowers Asphalt and Paving, Inc.
Person to Contact: David Bowers
Address: 6157 Walbridge Road
Walbridge, OH 43465

Location of proposed air contaminant source(s) [emissions unit(s)]:

**6157 Walbridge Road
Walbridge, Ohio**

Description of proposed emissions unit(s):

Asphalt plant w/ baghouse, roadways, stockpiles and diesel generator.

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

Chris Korleski
Director

Bowers Asphalt and Paving, Inc.
PTI Application: 03-16316
Issued: To be entered upon final issuance
Part I - GENERAL TERMS AND CONDITIONS

Facility ID: 0387040084

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

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 (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

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,

Bowers Asphalt and Paving, Inc.

Facility ID: 0387040084

PTI Application: 03-16316

Issued: To be entered upon final issuance

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

Bowers Asphalt and Paving, Inc.

Facility ID: 0387040084

PTI Application: 03-16316

Issued: To be entered upon final issuance

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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available

Bowers Asphalt and Paving, Inc.

Facility ID: 0387040084

PTI Application: 03-16316

Issued: To be entered upon final issuance

Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Bowers Asphalt and Paving, Inc.

Facility ID: 0387040084

PTI Application: 03-16316

Issued: To be entered upon final issuance

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 ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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>
(stack emissions)	
PE	4.10
SO ₂	9.03
CO	38.20
NO _x	19.09
VOC	13.73
(fugitive emissions)	
PE	2.24
VOC	1.48
CO	0.23

Bowers Asphalt and Paving, Inc.

Facility ID: 0387040084

PTI Application: 03-16316

Issued: To be entered upon final issuance

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F001 - Paved and unpaved plant roadways and parking areas.	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)
paved roadways and parking areas	OAC rule 3745-31-05(A)(3)	
		OAC rule 3745-17-07(B)
		OAC rule 3745-17-08(B)
		OAC rule 3745-31-05(A)(3)
unpaved roadways and parking areas (see section A.2.b)		

Applicable Emissions
Limitations/Control Measures

Fugitive particulate emissions (PE) shall not exceed 0.22 tpy from paved and unpaved roadways and parking areas.

No visible PE except for a period of time not to exceed 1 minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.c and A.2.e through A.2.i).

See section A.2.j.

See section A.2.k.

No visible PE except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.d through A.2.i).

See section A.2.j.

See section A.2.k.

2. Additional Terms and Conditions

Issued: To be entered upon final issuance

- 2.a** The paved roadways and parking areas that are covered by this permit and subject to the above mentioned requirements are listed below:

paved roadways:

all paved roadways

paved parking areas:

all paved parking areas

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above mentioned requirements are listed below:

unpaved roadways:

all unpaved roadways

unpaved parking areas:

all unpaved parking areas

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

- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water, chemical stabilization and surface improvements at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance

**Bowe
PTI A**

Emissions Unit ID: **F001**

Issued: To be entered upon final issuance

with the above mentioned applicable requirements. Implementation of any control measures may be suspended if unsafe or hazardous driving conditions would be created by its use.

- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways or parking areas.
- 2.g** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all time if the control measures is necessary for the materials being transported.
- 2.i** Implementation of the above mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05(A)(3).
- 2.j** This emissions unit is exempt from the visible emission limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.k** This facility is not located within an "Appendix A" areas as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

B. Operational Restrictions

None

C. Monitoring and/or Record Keeping Requirements

Emissions Unit ID: **F001**

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

<u>paved roadways and parking areas</u>	daily	<u>minimum inspection frequency</u>
all		

<u>unpaved roadways and parking areas</u>	daily	<u>minimum inspection frequency</u>
all		

2. The purpose of this inspections is to determine the need from implementing the above mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above mention applicable requirements. Any required inspection that is not performed due to any of the above mentioned events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee 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.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in section C.4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and

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

D. Reporting Requirements

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

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:

Fugitive particulate emissions (PE) shall not exceed 0.22 tpy from paved and unpaved roadways and parking areas.

Applicable Compliance Method:

This emission limitation was developed by multiplying emission factors from AP-42, Chapter 13.2.1 (12/03) [paved] and Chapter 13.2.2 (12/03) [unpaved], the maximum vehicles miles traveled, 95% control efficiency and dividing by 2000 lbs/ton:

 - i. road (paved): $(0.84 \text{ lb PE/VMT})(3,700 \text{ VMT})(\text{ton}/2000 \text{ lbs})(1-0.95) = 0.08$
 - ii. road (unpaved): $(2.03 \text{ lb PE/VMT})(2,700 \text{ VMT})(\text{ton}/2000 \text{ lbs})(1-0.95) = 0.14$
 - b. Emission Limitation:

No visible PE except for a period of time not to exceed 1 minute during any

Bowers Asphalt and Paving, Inc.
PTI Application: 03-16216
Issue:

Facility ID: 0387040084

Emissions Unit ID: F001

60-minute observation period from paved roadways and parking areas.

Applicable Compliance Method:

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

c. Emission Limitation:

No visible PE except for a period of time not to exceed 3 minutes during any 60-minute observation period from unpaved roadways and parking areas.

Applicable Compliance Method:

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

F. Miscellaneous Requirements

None

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PTI A**

Emissions Unit ID: **F002**

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-07(B)
F002 - Plant aggregate storage piles	OAC rule 3745-31-05(A)(3)	
load-in and load-out of storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	
wind erosion from storage piles (see section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	

Bowe**PTI A****Issued: To be entered upon final issuance**Emissions Unit ID: **F002**

Applicable Emissions
Limitations/Control Measures

Fugitive particulate emissions (PE) shall not exceed 0.34 tpy from aggregate storage piles.

No visible particulate emissions except for a period of time not to exceed 1 minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b, A.2.c and A.2.f)

See section A.2.g.

See section A.2.h.

No visible particulate emissions except for a period of time not to exceed 1 minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b, A.2.d and A.2.f)

See section A.2.g.

2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the above mentioned requirements are listed below:

Issued: To be entered upon final issuance

limestone aggregate piles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to:
- i. treat the load-in materials with water and maintain low drop height from conveyors;
 - ii. treat load-out materials with water and maintain low drop height from front-end loader.

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

- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat each storage pile with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

Bowers Asphalt and Paving, Inc.
PTI Application: 03 16216
Issue

Facility ID: 0387040084

Emissions Unit ID: F002

- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
- 2.g** This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.h** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08 (Putnam County). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

B. Operational Restrictions

None

C. Monitoring and/or Record Keeping Requirements

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

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
All	Once during each day of operation

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

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
All	Once during each day of operation

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

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
All	Once during each day of operation

Issued: To be entered upon final issuance

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee 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.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in section C.7.d shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

Bowers Asphalt and Paving, Inc.
PTI Application: 03 16216
Issue

Facility ID: 0387040084

Emissions Unit ID: F002

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

**Bowe
PTI A**

Emissions Unit ID: **F002**

Issued: To be entered upon final issuance

E. Testing Requirements

1. Emission Limitation:

Fugitive PE shall not exceed 0.34 tpy from aggregate storage piles.

Applicable Compliance Method:

Compliance shall be demonstrated by calculations using AP-42 emission factors for load in/load out, section 13.2-4 (revised 1/95) and section 11.12-2 (revised 1/95) for wind erosion and a maximum throughput for storage piles of 216,000 tons/yr and maximum storage pile area of 11.5 acres.

2. Emission Limitation:

No visible PE except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

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

F. Miscellaneous Requirements

None

**Bowe
PTI A**

Emissions Unit ID: **P001**

Issued: To be entered upon final issuance

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>	
P001 - 810 HP diesel fired generator.	OAC rule 3745-31-05(A)(3)	OAC rule 3745-18-06(G)
		OAC rule 3745-21-08(B)
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-11(B)(5)(b)	

Bowe

PTI A

Issued: To be entered upon final issuance

Emissions Unit ID: **P001**

Applicable Emissions
Limitations/Control Measures

Nitrogen oxides (NOx)
emissions shall not exceed
10.59 lbs/hr and 8.29 tpy.

Carbon monoxide (CO)
emissions shall not exceed 2.81
lbs/hr and 2.20 tpy.

Volatile organic compounds
(VOC) emissions shall not
exceed 0.30 lb/hr and 0.23 tpy.

Sulfur dioxide (SO₂) emissions
shall not exceed 0.03 lb/hr and
0.03 tpy.

Particulate emissions (PE) shall
not exceed 0.30 tpy.

Visible PE shall not exceed
10% opacity as a 6-minute
average, except during start-up
and shutdown.

See sections A.2.a and B.1.

See section A.2.b.

PE from the engine's exhaust
shall not exceed 0.062
lb/mmBtu of actual heat input.

See section A.2.c.

See section A.2.d.

2. Additional Terms and Conditions

Bowe**PTI A**Emissions Unit ID: **P001****Issued: To be entered upon final issuance**

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(b) and OAC rule 3745-23-06(B).
- 2.b** The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.c** This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- 2.d** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 03-16316.

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.

B. Operational Restrictions

1. The permittee shall combust only distillate fuel oil in this emissions unit.

The oil combusted in this emissions unit shall only be distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils"). The sulfur content of the distillate oil shall contain no more than 0.5 weight percent sulfur.

2. The maximum annual fuel usage for emissions unit P001 shall not exceed 36,000 gallons per year, based upon a rolling, 12-month summation of the gallon usage.

C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than distillate oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

Emissions Unit ID: **P001**

2. The permittee shall use records of fuel supplier certification to demonstrate compliance with the operational restriction in section B.1. Records of fuel supplier certification shall include the following information:
 - i. the name of the oil supplier; and
 - ii. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in B.1 above.
3. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. fuel usage each month, in gallons;
 - b. during the first 12 calendar months of operation, the cumulative fuel usage, in gallons; and
 - c. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the fuel usage, in gallons;

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following exceedances:
 - a. the rolling, 12-month gallon fuel usage limitation;
 - b. for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative gallons of fuel; and
 - c. the sulfur content fuel restriction specified in section B.1.

These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

Bowe

PTI A

Emissions Unit ID: **P001**

Issued: To be entered upon final issuance

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

**Bowe
PTI A**Emissions Unit ID: **P001****Issued: To be entered upon final issuance**

a. Emission Limitation:

10.59 lbs NO_x/hr and 8.29 tons NO_x per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 3.20 lb NO_x/mmBtu derived from AP-42, Table 3.4-1 (revised 10/96) and a maximum heat input of 3.31 mmBtu/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4, and 7 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 3.20 lb CO/mmBtu, a heat content of 0.144 mmBtu/gal, a maximum annual gallon usage of 50,000 gallons and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the 36,000 gallons of fuel usage per rolling, 12-month period operational restriction, compliance with the annual limitation will be assumed

b. Emission Limitation:

2.81 lbs CO/hr and 2.20 tons CO/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.85 lb CO/mmBtu derived from AP-42, Table 3.4-1 (revised 10/96) and a maximum heat input of 3.31 mmBtu/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4, and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 0.85 lb CO/mmBtu, a heat content of 0.144 mmBtu/gal, a maximum annual gallon usage of 36,000 gallons and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the 36,000 gallons of fuel usage per rolling, 12-month period operational restriction, compliance with the annual limitation will be assumed.

c. Emission Limitation:

Emissions Unit ID: **P001**

0.30 lbs VOC/hour and 0.23 ton VOC/year

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.09 lb VOC/mmBtu derived from AP-42, Table 3.4-1 (revised 10/96) and a maximum heat input of 3.31 mmBtu/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4, and 18, 25 or 25A of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 0.09 lb VOC/mmBtu, a heat content of 0.144 mmBtu/gal, a maximum annual gallon usage of 36,000 gallons and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the 36,000 gallons of fuel usage per rolling, 12-month period operational restriction, compliance with the annual limitation will be assumed.

d. Emission Limitation:

0.062 lb PE/mmBtu and 0.30 ton PE/yr

Applicable Compliance Method:

The lbs PE/mmBtu emission limitation represents the potential to emit* for this emissions unit. Therefore no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit was determined using AP-42, Chapter 3.4, Table 3.4-1 (revised 10/96).

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

The annual emission limitation was established by multiplying the emission limitation of 0.062 lb PE/mmBtu, a heat content of 0.144 mmBtu/gal, a maximum annual gallon usage of 36,000 gallons and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the 36,000 gallons of fuel usage per rolling, 12-month period operational restriction, compliance with the annual limitation will be assumed.

Issued: To be entered upon final issuance

e. Emission Limitation:

0.03 lb SO₂/hr and 0.03 ton SO₂/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.01 lb SO₂/mmBtu derived from AP-42, Table 3.4-1 (revised 10/96) and a maximum heat input of 3.31 mmBtu/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4, and 6 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 0.01 lb SO₂/mmBtu, a heat content of 0.144 mmBtu/gal, a maximum annual gallon usage of 36,000 gallons and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the 36,000 gallons of fuel usage per rolling, 12-month period operational restriction, compliance with the annual limitation will be assumed.

f. Emission Limitation:

Visible PE shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

None

Bowe**PTI A**Emissions Unit ID: **P901****Issued: To be entered upon final issuance****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>
P901 -Modification to 160 TPH batch mix asphalt plant, PTI 03-2960 issued on March 11, 1987. Modification to allow for federally enforceable emission limits, to change emissions unit from P001 to P901, and address cold end and hot end fugitive emissions.	OAC rule 3745-31-05(A)(3) OAC rule 3745-31-05(F)

Bowers Asphalt and Paving, Inc.
PTI Application: 03-16216
Issue

Facility ID: 0387040084

Emissions Unit ID: **P901**

OAC rule 3745-17-08
OAC rule 3745-18-06(E)

Applicable Emissions
Limitations/Control Measures

Stack Emissions:

Sulfur dioxide (SO₂) emissions shall not exceed 0.10 pound per ton of asphalt produced.

Nitrogen oxides (NO_x) emissions from burning any approved fuel shall not exceed 0.12 pound per ton of asphalt produced.

Carbon monoxide (CO) emissions from burning any approved fuel shall not exceed 0.40 pound per ton of asphalt produced.

Volatile organic compounds (VOC) emissions from burning any approved fuel shall not exceed 0.15 pound per ton of asphalt produced.

Particulate emissions (PE) from burning any approved fuel shall not exceed 0.04 gr/dscf of exhaust gases.

See sections A.2.a and A.2.c through A.2.i below.

Stack Emissions:

PE shall not exceed 3.80 tons per rolling, 12-month period from the stack.

40 CFR Part 60, Subpart I

OAC rule 3745-17-11(B)(1)
OAC rule 3745-17-07(B)

Bowe**PTI A**Emissions Unit ID: **P901****Issued: To be entered upon final issuance**

SO ₂ emissions shall not exceed 9.00 tons per rolling, 12-month period from the stack.	0.32 ton per rolling, 12-month period of PE
NO _x emissions shall not exceed 10.80 tons per rolling, 12-month period from the stack.	1.10 tons per rolling 12-month period of OC
CO emissions shall not exceed 36.00 tons per rolling, 12-month period from the stack.	Cold End Fugitive Dust Emissions:
VOC emissions shall not exceed 13.50 tons per rolling, 12-month period from the stack.	Fugitive PE associated with the weigh hopper loading, aggregate transfer operations and sand transfer operations shall not exceed 1.32 tons per rolling, 12-month period.
See section A.2.b below.	PE shall not exceed 0.04 gr/dscf of exhaust gases.
Asphalt Load Out Emissions:	See section A.2.d below.
Emissions from load out operations shall not exceed:	The emission limitations required by these applicable rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
0.12 ton per rolling, 12-month period of CO	
0.05 ton per rolling, 12-month period of PE	
0.38 ton per rolling, 12-month period of OC	
Asphalt Silo Filling Emissions:	
Emissions from silo filling operations shall not exceed:	
0.11 ton per rolling, 12-month period of CO	

Issued: To be entered upon final issuance**2. Additional Terms and Conditions**

- 2.a** The permittee has requested to voluntarily limit the allowable emissions from emissions unit P901, and as such, emission limitations will be established in accordance with OAC rule 3745-31-05(A)(3).
- 2.b** The permittee shall ensure that the baghouse is operated with sufficient air volume to eliminate visible fugitive emissions from the rotary drum.
- 2.c** All number 2 fuel oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5%, by weight.
- 2.d** Visible particulate emissions from the stack shall not exceed 20% opacity, as a 3-minute average.
- 2.e** The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see section A.2.a).
- 2.f** No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.
- 2.g** Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper) shall be less than or equal to 10% opacity, as a 3-minute average.
- 2.h** 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.
- 2.i** 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.

B. Operational Restrictions

- 1. The pressure drop across the fabric filter shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.
- 2. The maximum annual asphalt production rate for this emissions unit shall not exceed 180,000 tons per year, based upon a rolling, 12-month summation of the asphalt

production.

To ensure enforceability during the first 12 calendar months of operation, the permittee shall not exceed the production levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Tons of Hot Mix Asphalt Produced</u>
1	20,000
1-2	40,000
1-3	60,000
1-4	80,000
1-5	100,000
1-6	120,000
1-7	140,000
1-8	160,000
1-9	180,000
1-10	180,000
1-11	180,000
1-12	180,000

After the first 12 calendar months of operation, compliance with the annual production limitation shall be 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 VOC, CO and NOx.
4. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 per cent of all aggregate materials.

C. Monitoring and/or Recordkeeping Requirements

1. 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.
2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with

Issued: To be entered upon final issuance

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 asphalt production for each month;
 - b. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of the asphalt production;
 - c. during the first 12 calendar months of operation, the permittee shall record the cumulative asphalt production for each calendar month; and
 - d. the maximum percentage of RAP used for any mix.
4. For each shipment of number 2 fuel 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.
5. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal (above the allowable) visible particulate emissions from the baghouse servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
 - a. the color of the visible emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of the visible emission incident; and
 - d. corrective actions taken to correct the excess visible particulate emissions.
6. 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 hot aggregate elevator, vibrating screens, weigh hopper, the aggregate storage bins 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 visible emissions;

Issued: To be entered upon final issuance

- b. the cause of the visible particulate emissions;
- c. the total duration of any visible emissions incident; and
- d. any corrective actions taken to minimize or eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month asphalt production limitation. 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 submit quarterly deviation (excursion) reports that identify all exceedances of the RAP limitation specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).
4. The permittee shall submit annual reports that specify the total particulates, SO₂, NO_x, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.
5. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the sulfur content limit specified above. These reports are due by the dates described in Part I - General Terms and Condition of this permit under section (A)(2).
6. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any abnormal (above the allowable) 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 shall be submitted to the Ohio EPA Northwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
7. The permittee shall submit semiannual written deviation (excursion) reports that (a)

Emissions Unit ID: **P901**

identify all days during which any visible fugitive particulate emissions were observed from the hot aggregate elevator, aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Northwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

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

- a. Emission Limitations:

NO_x emissions from burning any approved fuel shall not exceed 0.12 pound per ton of asphalt produced.

SO₂ emissions shall not exceed 0.10 pound per ton of asphalt produced.

CO emissions from burning any approved fuel shall not exceed 0.40 pound per ton of asphalt produced.

VOC emissions from burning any approved fuel shall not exceed 0.15 pound per ton of asphalt produced.

PE from burning any approved fuel shall not exceed 0.04 gr/dscf of exhaust gases.

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 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 rates for PE, VOC, CO, NO_x and SO₂.
- iii. The following test method(s) shall be employed to demonstrate

Bowe**PTI A**Emissions Unit ID: **P901****Issued: To be entered upon final issuance**

compliance with the allowable mass emission rate(s) for:

PE - Methods 1 through 5 of 40 CFR Part 60, Appendix A;

NO_x - Methods 1 through 4 and 7 or 7E of 40 CFR Part 60, Appendix A;

SO₂ - Methods 1 through 4 and 6 or 6C of 40 CFR Part 60, Appendix A;

CO - Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A; and

VOC - Methods 1 through 4 and 25 and/or 18 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 this emissions unit is operating at or near its maximum capacity and burning number 2 fuel oil for PE, VOC, CO, NO_x and SO₂ unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

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.

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.

b. Emission Limitation:

PE emissions shall not exceed 3.80 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of PE per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by section C.3 above), and dividing by 2000 lbs/ton.

c. Emission Limitation:

VOC emissions shall not exceed 13.50 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of VOC per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by section C.3 above), and dividing by 2000 lbs/ton.

d. Emission Limitation:

CO emissions shall not exceed 36.00 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of CO per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by section C.3 above), and dividing by 2000 lbs/ton.

Issued: To be entered upon final issuance

e. Emission Limitation:

SO₂ emissions shall not exceed 9.00 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of SO₂ per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by section C.3 above), and dividing by 2000 lbs/ton.

f. Emission Limitation:

NO_x emissions shall not exceed 10.80 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of NO_x per ton of asphalt produced, by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by section C.3 above), and dividing by 2000 lbs/ton.

g. Emission Limitation:

Visible particulate emissions from the stack 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 modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

h. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the limitations on visible emissions of fugitive dust found in Section A.1 of this permit shall be demonstrated by the monitoring and record keeping in Section C.4. If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60, Standards of Performance for New Stationary Sources, as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

i. **Emission Limitation:**

Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper) shall be less than or equal to 10% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03, or for non stack sources, compliance with the emissions limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60, Standards of Performance for New Stationary Sources, as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

j. **Emission Limitation:**

Fugitive PE emissions from the cold end shall not exceed 1.32 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be assumed based upon the following worst case calculations:

Total fugitive emissions equal the summation of the fugitives from the cold end and the hot end of the plant operations.

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Fugitives emissions from the cold end are calculated as follows

Weigh hopper loading:

$$(180,000 \text{ tons of material/year} \times 0.0051 \text{ lb PE/ton of material}) / 2000 \text{ lbs/ton} = 0.459 \text{ ton PE/yr}$$

Aggregate transfer:

$$(180,000 \text{ tons of aggregate/year} \times 0.0069 \text{ lb PE/ton of aggregate}) / 2000 \text{ lbs/ton} = 0.621 \text{ ton PE/yr}$$

Sand transfer:

$$(180,000 \text{ tons of sand/year} \times 0.0021 \text{ lb PM/ton of sand}) / 2000 \text{ lbs/ton} = 0.189 \text{ ton PE/yr}$$

The sum of the above is: 1.269 tons of PE

k. Emission Limitation:

CO emissions from asphalt load out operations shall not exceed 0.12 ton per rolling, 12-month period.

Applicable Compliance Method:

Predictive Equation for CO (obtained from AP-42, Table 11.1-14)

$$EF = 0.00558(-V)e^{((0.0251)(T+460)-20.43)} = 0.0013 \text{ lb CO/ton of asphalt produced}$$

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

$$\text{CO (ton)} = 0.0013 \text{ lb/ton} \times 180,000 \text{ tpy} / 2000 \text{ lbs/ton} = 0.12 \text{ tpy}$$

l. Emission Limitation:

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PE from asphalt load out operations shall not exceed 0.05 ton per rolling, 12-month period.

Applicable Compliance Method:

Predictive Equation for PE (obtained from AP-42, Table 11.1-14)

$EF = 0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)} = 0.000522 \text{ lb PE/ton of asphalt produced}$

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

$PE \text{ (ton)} = 0.000522 \text{ lb/ton} \times 180,000 \text{ tpy} / 2000 \text{ lbs/ton} = 0.05 \text{ tpy}$

m. Emission Limitation:

OC emissions from asphalt load out operations shall not exceed 0.38 ton per rolling, 12-month period.

Applicable Compliance Method:

Predictive Equation for OC (obtained from AP-42, Table 11.1-14)

$EF = 0.0172(-V)e^{((0.0251)(T+460)-20.43)} = 0.0042 \text{ lb OC/ton of asphalt produced}$

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

$OC \text{ (ton)} = 0.0042 \text{ lb/ton} \times 180,000 \text{ tpy} / 2000 \text{ lbs/ton} = 0.38 \text{ tpy}$

n. Emission Limitation:

CO emissions from silo filling operations shall not exceed 0.11 ton per rolling, 12-month period.

Applicable Compliance Method:

Predictive Equation for CO (obtained from AP-42, Table 11.1-14)

$EF = 0.00488(-V)e^{((0.0251)(T+460)-20.43)} = 0.0012 \text{ lb CO/ton of asphalt produced}$

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

$CO \text{ (ton)} = 0.0012 \text{ lb/ton} \times 180,000 \text{ tpy} / 2000 \text{ lbs/ton} = 0.11 \text{ tpy}$

o. Emission Limitation:

PE from silo filling operations shall not exceed 0.32 ton per rolling, 12-month period.

Applicable Compliance Method:

Predictive Equation for PE (obtained from AP-42, Table 11.1-14)

$EF = 0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)} = 0.00357 \text{ lb PE/ton of asphalt produced}$

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

$PE \text{ (ton)} = 0.00357 \text{ lb/ton} \times 180,000 \text{ tpy} / 2000 \text{ lbs/ton} = 0.32 \text{ tpy}$

p. Emission Limitation:

OC emissions from silo filling operations shall not exceed 1.10 tons per rolling, 12-month period.

Applicable Compliance Method:

**Bowe
PTI A**

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

Predictive Equation for OC (obtained from AP-42, Table 11.1-14)

$EF = 0.0504(-V)e((0.0251)(T+460)-20.43) = 0.0122$ lb OC/ton of asphalt produced

where:

V = -0.5 asphalt volatility factor (default)

T = 325 HMA mix temperature (degrees F) (default)

OC (ton) = 0.0122 lb/ton x 180,000 tpy / 2000 lbs/ton = 1.10 tpy

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	160 Ton/Hr 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:

1. Construction date (no later than 30 days after such date);
2. Actual start-up date (within 15 days after such date); and
3. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to the Ohio EPA District Office or local air agency responsible for the permitting of the facility.

Bowe

PTI A

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

SIC CODE 1611 SCC CODE _____ EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Plant roadways and parking areas

DATE INSTALLED 1987

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	Attainment	n/a	0.22	n/a	0.22
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination compliance with terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

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 x NO

IDENTIFY THE AIR CONTAMINANTS: _____

Bowers Asphalt and Paving, Inc.
PTI Application: 03-16316
Issued: To be entered upon final issuance

Facility ID: 0387040084

Emissions Unit ID: **P901**

SIC CODE 1611 SCC CODE _____ EMISSIONS UNIT ID F002
 EMISSIONS UNIT DESCRIPTION Plant aggregate storage piles.
 DATE INSTALLED 1987

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	Attainment	n/a	0.34	n/a	0.34
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

Enter Determination compliance with terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

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 x NO

IDENTIFY THE AIR CONTAMINANTS: _____

**Bowe
PTI A**

Emissions Unit ID: **P901**

Issued: To be entered upon final issuance

SIC CODE SCC CODE EMISSIONS UNIT ID
 EMISSIONS UNIT DESCRIPTION
 DATE INSTALLED

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	Attainment	0.33	0.30	0.33	0.30
PM ₁₀					
Sulfur Dioxide	Attainment	0.03	0.03	0.03	0.03
Organic Compounds	Attainment	0.30	0.23	0.30	0.23
Nitrogen Oxides	Attainment	10.59	8.29	10.59	8.29
Carbon Monoxide	Attainment	2.81	2.20	2.81	2.20
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination compliance with terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

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:

Bowers Asphalt and Paving, Inc.
PTI Application: 03-16316
Issued: To be entered upon final issuance

Facility ID: 0387040084

Emissions Unit ID: **P901**

SIC CODE 1611 SCC CODE _____ EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION Modification to PTI 03-2960 issued on March 11, 1987. 150 TPH batch mix asphalt plant.

DATE INSTALLED 1987

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	attainment	6.72	3.80	6.72	3.80
PM ₁₀					
Sulfur Dioxide	attainment	16.00	9.00	16.00	9.00
Organic Compounds	attainment	24.00	13.50	24.00	13.50
Nitrogen Oxides	attainment	19.20	10.80	19.20	10.80
Carbon Monoxide	attainment	64.00	36.00	64.00	36.00
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?

Enter Determination compliance with terms and conditions of this permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

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 x NO

IDENTIFY THE AIR CONTAMINANTS: _____