



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: 01-08289

DATE: 1/9/2001

Apple Smith Plant #2
F R Smith
3040 McKinley Avenue
Columbus, OH 43204

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



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 01-08289

Application Number: 01-08289
APS Premise Number: 0125042120
Permit Fee: **\$1750**
Name of Facility: Apple Smith Plant #2
Person to Contact: F R Smith
Address: 3040 McKinley Avenue
Columbus, OH 43204

Location of proposed air contaminant source(s) [emissions unit(s)]:
3040 McKinley Ave
Columbus, Ohio

Description of proposed emissions unit(s):
Asphalt batch plant with 3 liquid asphalt tanks, material handling, storage piles and roadways and parking.

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

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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

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Environmental Protection Agency if the proposed sources are inadequate 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 prove to be inadequate 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.

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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	1.3 tpy
NOx	0.6 tpy
CO	9.0 tpy
SO2	0.1 tpy
OC	0.4 tpy

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.

areas (see Section A.2.b)

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

F001 - paved roadways and parking
areas (see Section A.2.a)

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

OAC rule 3745-17-07(B)(4)

OAC rule 3745-17-08(B)

unpaved roadways and parking

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

Emissions Unit ID: F001

Applicable Emissions
Limitations/Control Measures

Particulate emissions shall not exceed 0.01 ton/year

There shall be no visible particulate emissions except for a period of three minutes during any 60-minute observation period.

OAC rule 3745-17-07(B)(5)

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

OAC rule 3745-17-08(B)

The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitation established by this rule.

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

Particulate emissions shall not exceed 0.1 ton/year

There shall be no visible particulate emissions except for a period of three minutes during any 60-minute period.

Best available control measures that are sufficient to minimize or eliminate visible emissions of

fugitive dust (see Sections A.2.e through A.2.j)

The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitation established by this rule.

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

2. Additional Terms and Conditions

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

All paved roadways and parking areas

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

All unpaved roadways and 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 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 the unpaved shoulders of 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 unpaved shoulders of the paved roadways and parking areas 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 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 at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.f** 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 with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if

Emissions Unit ID: F001

unsafe or hazardous driving conditions would be created by its use.

- 2.g 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 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 a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.h 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.i Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.j Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.
- 2.k The permittee shall post and enforce on the property, a maximum speed of 5 miles per hour.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of all paved and unpaved roadways and parking areas on a daily basis.
- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a 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 with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

D. Reporting Requirements

1. The permittee shall submit semiannual 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.

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Emissions Unit ID: F001

E. Testing Requirements

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
2. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.01 ton/year particulate matter from paved roadways and parking areas

Applicable Compliance Method:
Emissions calculated for paved roadways and parking areas were determined using AP-42 13.2.1 emission factors dated 10/97 for paved roads.
 - b. Emission Limitation:
0.1 ton/year particulate matter from unpaved roadways and parking areas

Applicable Compliance Method:
Emissions calculated for unpaved roadways and parking areas were determined using AP-42 13.2.2 emission factors dated 9/98 for unpaved roads.

F. Miscellaneous Requirements

None

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>
F002 - load-in and load-out of storage piles	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07 (B)(6)
	OAC rule 3745-17-07(B)(6)
	OAC rule 3745-17-08(B)(1)
	OAC rule 3745-17-08(B)(1)
wind erosion from storage piles	OAC rule 3745-31-05(A)(3)

Applicable Emissions
Limitations/Control Measures

Particulate emissions shall not exceed 0.2 ton/year

There shall be no visible particulate emissions except for a period of one 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)

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

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)

There shall be no visible particulate emissions except for a period of one 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.d through A.2.f)

The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitations established by this rule.

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

2. Additional Terms and Conditions

- 2.a** All storage piles at this site are covered by this permit and subject to the above-mentioned requirements.
- 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 treat with water to ensure compliance. 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 with water 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.
- 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.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile on a daily basis.
2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile on a daily basis.
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 on a daily basis.
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 events 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 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 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, (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

1. The permittee shall submit semiannual 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.

E. Testing Requirements

1. Compliance with the visible emission limitations for the storage piles and conveying process 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.
2. Emission Limitation:
Particulate emissions shall not exceed 0.2 ton/year

Applicable Compliance Method:

Compliance with the particulate emissions limitation in term A.1 shall be determined by emissions factors from AP-42, 13.2.4 (1/95) for load-in and load-out operations and the emission factor from US EPA's *Control of Open Fugitive Dust Sources* (9/88) for wind erosion.

F. Miscellaneous Requirements

None

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>
F003 - Material Handling of sand and gravel with a front end loader and conveyor	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.03 ton/year.
		Best available control measures that are sufficient to minimize or eliminate visible emission of fugitive dust (see section A.2.b through A.2.d)
		The sand and gravel shall have sufficient moisture content to minimize or eliminate visible emissions of fugitive dust during material handling.
		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.
	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3 minute average.
	OAC rule 3745-17-08(B)	Best available control measures that are sufficient to minimize or eliminate visible emission of fugitive dust (see

section A.2.b through A.2.d)

2. Additional Terms and Conditions

2.a The material handling operations that are covered by this permit and subject to the above mentioned requirements are listed below:

Belt conveyor
Front end loader (sand and gravel)

2.b The permittee shall employ best available control measures for the above-identified material handling operations 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 perform the following control measures to ensure compliance:

Material Handling Operations:

Control Measures:

Front end loading (sand and gravel)

Maintain sufficient moisture
Minimize drop height of front end loader

Belt conveyor

Maintain sufficient moisture

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

2.c For each material handling operation that is not adequately enclosed, the above identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measure is unnecessary.

2.d Implementation of the control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of front end loading of sand and gravel and conveying on a weekly basis.
2. The above mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Central District Office, modify the above mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates control measure(s) were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) were implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit semiannual deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed in accordance with the required frequency
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

E. Testing Requirements

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

- a. Emission Limitation:
Particulate emissions shall not exceed 0.03 ton/year.

Applicable Compliance Method:

Compliance with this emission limitation shall be calculated based on the emission factors for conveyors and truck loading in AP-42, 11.19.2 (1995) and the maximum production rate of the plant.

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Apple

PTI A

Issued: 1/9/2001

Emissions Unit ID: **F003**

F. Miscellaneous Requirements

None

Applicable Emissions
Limitations/Control Measures

Particulate emissions shall not exceed 3.78 pounds per hour and 1.0 ton per year.

Nitrogen oxide emissions shall not exceed 2.25 pounds per hour and 0.6 ton per year.

Sulfur dioxide emissions shall not exceed 0.41 pound per hour and 0.1 ton per year.

Carbon monoxide emissions shall not exceed 36.0 pounds per hour and 9.0 tons per year.

Organic compound emissions shall not exceed 1.35 pound per hour and 0.4 ton per year.

Particulate emissions shall not exceed 0.03 gr/dscf.

Visible emissions of fugitive dust shall not exceed 20% opacity as a 6 minute average.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I and OAC rule 3745-17-07(A).

See II.2.a below.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-04(A)(3).

Visible emissions shall not exceed 20% opacity.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart I.

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

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

2. Additional Terms and Conditions

- 2.a The aggregate loaded into the feed bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the conveyor to the dryer.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained, while the emissions unit is in operation, within the range specified by the manufacturer's written recommendation until an emission test takes place which specifies a pressure drop range that demonstrates the emissions unit is in compliance.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
- a. whether the emissions are representative of normal operations
 - b. if the emissions are not representative of normal operations, the cause of the abnormal emissions; and
 - c. any corrective action taken to eliminate the abnormal emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when 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. whether the emissions are representative of normal operations
 - b. if the emissions are not representative of normal operations, the cause of the abnormal emissions; and
 - c. any corrective action taken to eliminate the abnormal emissions.
3. The permittee shall maintain monthly records of the following information:

- a. the production rate for each month (tons); and
 - b. hours of operation each month.
4. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emission unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop on the baghouse on a daily basis.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed escaping from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. If no abnormal visible particulate emissions were observed, the permittee shall submit a semiannual report, which states that no visible emissions were observed. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal 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. If no visible particulate emissions were observed, the permittee shall submit a semiannual report, which states that no visible emissions were observed. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. 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 shall be submitted to the Central 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 specified in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
Particulate emissions shall not exceed 3.78 pounds per hour and 1.0 ton per year.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by multiplying the emission factor of 0.042 pound per ton of asphalt (AP-42, 12/00, Table 11.1- for natural gas- fired dryers with fabric filter control) by the maximum capacity of the emission unit (90 tons per hour).

Compliance with the long term emission limitation shall be demonstrated by multiplying the emission factor of 0.042 pound per ton of asphalt (AP-42, 12/00, Table 11.1- for natural gas- fired dryers with fabric filter control) by the maximum annual production rate of the emission unit (45,000 tons per year) and dividing 2,000 pounds per ton.

b. Emission Limitation:

Nitrogen oxide emissions shall not exceed 2.25 pounds per hour and 0.6 ton per year.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by multiplying the emission factor of 0.025 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum capacity of the emission unit (90 tons per hour).

Compliance with the long term emission limitation shall be demonstrated by multiplying the emission factor of 0.025 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum annual production rate of the emission unit (45,000 tons per year) and dividing 2,000 pounds per ton.

c. Emission Limitation:

Sulfur dioxide emissions shall not exceed 0.41 pound per hour and 0.1 ton per year.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by multiplying the emission factor of 0.0046 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum capacity of the emission unit (90 tons per hour).

Compliance with the long term emission limitation shall be demonstrated by multiplying the emission factor of 0.0046 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum annual production rate of the emission unit (45,000 tons per year) and dividing 2,000 pounds per ton.

- d. Emission Limitation:
Carbon monoxide emissions shall not exceed 36.0 pounds per hour and 9.0 tons per year.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by multiplying the emission factor of 0.40 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum capacity of the emission unit (90 tons per hour).

Compliance with the long term emission limitation shall be demonstrated by multiplying the emission factor of 0.40 pound per ton of asphalt (AP-42, 12/00, Table 11.5 - for natural gas- fired dryers) by the maximum annual production rate of the emission unit (45,000 tons per year) and dividing 2,000 pounds per ton.

- e. Emission Limitation:
Organic compound emissions shall not exceed 1.35 pound per hour and 0.4 ton per year.

Applicable Compliance Method:

Compliance with the short term emission limitation shall be demonstrated by multiplying the emission factor of 0.015 pound per ton of asphalt (AP-42, 12/00, Table 11.6 - for natural gas- fired dryers) by the maximum capacity of the emission unit (90 tons per hour).

Compliance with the long term emission limitation shall be demonstrated by multiplying the emission factor of 0.015 pound per ton of asphalt (AP-42, 12/00, Table 11.6 - for natural gas- fired dryers) by the maximum annual production rate of the emission unit (45,000 tons per year) and dividing 2,000 pounds per ton.

- f. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity as a 6 minute average.

Apple Smith Plant #2
PTI Application: 01 00200
Issued

Facility ID: 0125042120

Emissions Unit ID: P001

Applicable Compliance Method:

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

- g. Emission Limitation:
Particulate emissions shall not exceed 0.03 gr/dscf.

Applicable Compliance Method:

The particulate emissions shall be determined by, emission testing for this emissions unit in accordance with the following requirements:

- i. Upon issuance of this permit, emission testing shall be conducted within 90 operating days.
- ii. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5, 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, unless otherwise specified or approved by the Ohio EPA, Central District Office.

- h. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity.

Applicable Compliance Method:

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

2. 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, Central 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central 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 testing procedure provide a valid characterization of the

Apple**PTI A****Issued: 1/9/2001**Emissions Unit ID: **P001**

emission 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, Central 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, Central District Office.

F. Miscellaneous Requirements

1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source No.	Source Description	NSPS Regulation
P001	Asphalt batch plant	40 CFR 60, Subparts A and 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.

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>
T003 - 24,000-gallon fixed roof liquid asphalt tank	OAC rule 3745-31-05 (A)(3)	Organic compound emissions shall not exceed 0.004 ton per year.
	OAC rule 3475-21-09(L)	See A.2.a. below.
	40 CFR Part 60 Subpart Kb	See C.1 and C.2 below.

2. Additional Terms and Conditions

- 2.a In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because T003 has a capacity less than 40,000 gallons.

B. Operational Restrictions

None

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 showing the dimensions of T003 and an analysis showing the capacity for the life of T003.
2. The permittee shall maintain readily accessible records which identify the contents of T003.

D. Reporting Requirements

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PTI A

Issued: 1/9/2001

Emissions Unit ID: **T003**

None

E. Testing Requirements

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

- a. Emission Limitation:
Organic compound emissions shall not exceed 0.004 ton per year.

Applicable Compliance Method:

OC emissions due to standing and withdrawal losses from the storage tanks shall be determined using the most recent version of USEPA's "Tanks" program.

F. Miscellaneous Requirements

1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source No.	Source Description Regulation	NSPS
T003	24,000-gal liquid asphalt tank	40 CFR 60, Subparts A and 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.

NEW SOURCE REVIEW FORM B

PTI Number: 01-08289 Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt tanks, material handling, storage piles and roadways and parking. CITY/TWP Columbus

SIC CODE 2951 SCC CODE _____ EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION unpaved roadways and parking areas

DATE INSTALLED 10/92

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			0.2 tpy		0.2 tpy
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 - See additional terms and conditions.

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 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: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08289 Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt CITY/TWP Columbus

Emissions Unit ID: T003

SIC CODE 2951 SCC CODE 3-05-002-03 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Storage piles

DATE INSTALLED 10/92

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		0.2 tpy			0.2 tpy
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 - See additional terms and conditions.

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:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08289 Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt CITY/TWP Columbus

Emissions Unit ID: T003

SIC CODE 2951 SCC CODE 3-05-002-14 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Material Handling

DATE INSTALLED 10/92

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			0.03 tpy		0.03 tpy
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 - See additional terms and conditions.

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:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08289

Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt CITY/TWP Columbus

Emissions Unit ID: T003

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'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	000000c.wpd	<input checked="" type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	000000t.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

Apple-Smith Plant #2 is applying for a PTI for an asphalt batch plant that was installed in 1992. The plant has a PTI (#01-3963) but is planning to increase production from 50 tons per hour to 90 tons per hour. The permit includes the process emissions for the bin feeders, dryer, conveyors, mixing unit, bin and bucket elevator, three liquid asphalt tanks and fugitive emissions from roadways and parking, and storage pile material handling. The maximum production for the facility is 45,000 tons per year and does not trigger Title V.

Applicable regulations:

OAC rules 3745-31-05(A), 3745-17-07(A), 3745-17-07(B), 3745-08(B), 3745-17-11(B), 3745-18-06(E), 3745-21-09(L)

40 CFR Part 60, Subpart I and Subpart Kb

Calculations:

F001- Roadways and Parking

See hard copy calculations.

F002 - Load-in/load out of storage piles and wind erosion

AP-42, 5th Ed., Chap. 13.2.4, Eqn (1); Jan. 1995

$$E = \frac{k}{3188} (0.0032) \left(\frac{U}{5}\right)^{1.3}$$

4 NEW SOURCE REVIEW FORM B

PTI Number: 01-08289

Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt CITY/TWP Columbus

Emissions Unit ID: T003

$$(M/2)^{1.4}$$

E = emission factor

k = particle size multiplier (dimensionless) = 0.74

U = mean wind speed (mph) = 8.7

M = material moisture content (%) = 11

Load-in Rate

Sand:

$$E = 0.74 (0.0032) \frac{(8.7/5)^{1.3}}{(6/2)^{1.4}} = 0.00104 \text{ lb/ton}$$

At 18,000 tons/year load in rate: (0.00104 lb/ton) X (18,000 tons/yr) (1 ton/2000 lb) =
= 0.0094 tons PM/yr

#8 Gravel

$$E = 0.74 (0.0032) \frac{(8.7/5)^{1.3}}{(4/2)^{1.4}} = 0.00184 \text{ lb/ton}$$

At 13,500 tons/year load in rate: (0.00184 lb/ton) X (13,500 tons/yr) (1 ton/2000 lb) =
= 0.012 tons PM/yr

#57 Gravel:

$$E = 0.74 (0.0032) \frac{(8.7/5)^{1.3}}{(2/2)^{1.4}} = 0.0049 \text{ lb/ton}$$

At 13,500 tons/year load in rate: (0.0049 lb/ton) X (13,500 tons/yr) (1 ton/2000 lb) = 0.033 tons PM/yr

Load out rate: same equation and values; 0.055 tons PM/yrWind erosion from storage piles:

U.S EPA Final Report: Control of Open Fugitive Dust Sources, Sept. 1998, Eqn. (4-9)

$$E = 1.7 (s/1.5) ((365 - p)/235) (f/15) = \text{lb/day/acre}$$

s = silt content (max. %) = 5

p = number of days with @ 0.01 inch of precipitation per year = 91 days

f = percentage of time that the unobstructed wind speed exceeds 12 mph at the mean pile height
= 30 (default value)

$$E = 1.7 (5/1.5) ((365 - 91)/235) (30/15) = 12.25 \text{ lb PM/day/acre}$$

42 **NEW SC**

PTI Num

FACILITY

Emissions Unit ID: **T003**

FACILITY DESCRIPTION

Asphalt batch plant with 3 liquid asphalt tanks, material handling, storage piles and roadways and parking.

CITY/TWP

Columbus

At 0.015 acre: (12.25 lb/day/acre) (0.015 acre) = 0.18 lb PM/day

At 365 days/year: (0.18 lb PM/day) (365 days/ 1 year) (1 ton/2000 lbs) = .03 ton PM/yr

Total Emissions for F002:

0.055 ton/yr (load-in) + 0.055 ton/yr (load-out) + 0.03 ton/yr (wind erosion) = 0.14 ton PM/yr

F003 - Material Handling:

AP-42, 5th Ed., Chap. 11.19.2, Eqn (1); Jan. 1995 (Emission Factors for Crushed Stone Operations)

EF for Conveyor transfer point = .00072 kg/Mg material throughput

EF for Truck Loading = 0.00005 kg/Mg material throughput

Annual limit:

(45,000 tons/yr) x (0.907 Mg/ton) x (.00072 kg/Mg) x (1 lb/.454 kg) x (1 ton/2000 lbs) = .03 tpy

(45,000 tons/yr) x (0.907 Mg/ton) x (0.00005 kg/Mg) x (1 lb/.454 kg) x (1 ton/2000 lbs) = .002 tpy

Add conveyor and truck loading emissions to obtain total material handling emissions.

(0.03 tpy) + (0.002 tpy) = 0.03 tpy

P001 - Asphalt Batch Plant

AP-42, Table 11.1-1, Table 11.1-5, Table 11.1-6 (12/00) for Natural Gas Dryer with fabric filter

Particulate Emissions -

PM EF = 0.042 lb/ton

Hourly limit: (0.042 lb/ton) (90 ton/hr) = 3.78 lb/hr

Annual limit: (0.042 lb/ton) (45,000 ton/yr) (2,000 lb/ton) = 0.95 ton/yr

Nitrogen Oxide-

NOx EF = 0.025 lb/ton

Hourly limit: (0.025 lb/ton) (90 ton/hr) = 2.25 lb/hr

Annual limit: (0.025 lb/ton) (45,000 ton/yr) (2,000 lb/ton) = 0.6 ton/yr

Sulfur Dioxide-

SO2 EF = 0.0046 lb/ton

NEW SOURCE REVIEW FORM B

PTI Number: 01-08289

Facility ID: 0125042120

FACILITY NAME Apple Smith Plant #2

FACILITY DESCRIPTION Asphalt batch plant with 3 liquid asphalt CITY/TWP Columbus

Emissions Unit ID: **T003**

Hourly limit: (0.0046 lb/ton) (90 ton/hr) = 0.41 lb/hr

Annual limit: (0.0046 lb/ton) (45,000 ton/yr) (2,000 lb/ton) = 0.104 ton/yr

Carbon Monoxide-

CO EF = 0.40 lb/ton

Hourly limit: (0.40 lb/ton) (90 ton/hr) = 36 lbs/hr

Annual limit: (0.40 lb/ton) (45,000 ton/yr) (2,000 lb/ton) = 9.0 tons/yr

Organic Compound-

OC EF = 0.015 lb/ton

Hourly limit: (0.015 lb/ton) (90 ton/hr) = 1.35 lb/hr

Annual limit: (0.015 lb/ton) (45,000 ton/yr) (2,000 lb/ton) = 0.34 ton/yr

All emissions are based on maximum throughputs. If you have any questions please call. Thanks!

Kelly Meinzer

(614) 728-5043

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

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS
Pollutant Tons Per Year

44 NEW SC

PTI Num

FACILITY

Emissions Unit ID: **T003** _____

FACILITY DESCRIPTION

Asphalt batch plant with 3 liquid asphalt tanks, material handling, storage piles and roadways and parking.

CITY/TWP

Columbus

PM

1.3 tpy

NOx

0.6 tpy

CO

9.0 tpy

SO2

0.1 tpy

OC

0.4 tpy