



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

10/27/2016

Certified Mail

Jonathon Apple
 The Apple-Smith Corporation
 3040 McKinley Avenue
 Columbus, OH 43204

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0125042120
 Permit Number: P0118701
 Permit Type: Administrative Modification
 County: Franklin

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of 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 permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Columbus Dispatch. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall and Ohio EPA DAPC, Central District Office
 Permit Review/Development Section 50 West Town Street, 6th Floor
 Ohio EPA, DAPC P.O. Box 1049
 50 West Town Street Suite 700 Columbus, OH 43216-1049
 PO Box 1049
 Columbus, Ohio 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778.

Sincerely,

Michael E. Hopkins, P.E.
 Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification
 Ohio EPA-CDO

Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

The Apple-Smith Corporation (Apple-Smith) is a 134 TPH hot mix asphalt batch plant located in Columbus, Ohio. The facility has requested an administrative modification to burn on-spec used oil.

3. Facility Emissions and Attainment Status:

Apple-Smith operates under federally enforceable limitations to avoid classification as a major source under Title V and New Source Review. The facility has requested an administrative modification to change their synthetic minor strategy from an annual production throughput limitation of 375,00 tons to an annual 2,750 hours of operation limitation. Franklin County is currently in marginal nonattainment for the 2008 eight-hour ozone standard.

4. Source Emissions:

The 134 TPH hot mix asphalt batch plant (emissions unit P901) is the source of PE, NO_x, CO, VOC, SO₂, and toxic air contaminant emissions from the manufacturing of hot mix asphalt. P901 consists of the 134 TPH hot mix asphalt batch plant as well as material handling operations, including material loading, vibrating screens, conveyor transfer points, silo filling and drum mix loadout operations. P901 is permitted to burn natural gas, on-spec used oil and No. 2 fuel oil. The raw material mix may contain up to 50% RAP and/or shingles. Particulate emissions are controlled by a baghouse.

On November 20, 2009, Apple-Smith submitted a permit application to modify the existing hot mix asphalt batch plant, resulting in an increased production capacity. Best Available Technology (BAT) for emissions unit P901 was established in the FEPTIO issued on April 2, 2010 as pound per hour emissions limitations for NO_x, CO, VOC, and SO₂ and as a gr/dscf emissions limitation for PE. Because the permit application was submitted after August 3, 2009, BAT should have been established in accordance with the provisions of Senate Bill 265. As such, BAT for NO_x, CO, VOC, SO₂, and PE has been re-evaluated in accordance with Ohio EPA's February 7, 2014, BAT guidance. Specifically, BAT for NO_x, CO, VOC, and SO₂ has been established as being equivalent to the federally enforceable rolling, 12-month limitations established under OAC rule 3745-31-05(D), and BAT for PE has been established as a baghouse design specification.

Apple-Smith is also a source of PE from the plant's roadways and parking areas (emissions unit F001) as well as the gravel, sand, limestone and RAP/shingles storage piles (emissions unit F002). These emissions units are being permitted under a separate general permit.

5. Conclusion:

The issuance of P0118701 is recommended. The emission limitations, operational restrictions, monitoring, recordkeeping and testing requirements contained in this FEPTIO are adequate to ensure that the applicable PE, NO_x, CO, VOC and SO₂ thresholds will not be exceeded.



Permit Strategy Write-Up
The Apple-Smith Corporation
Permit Number: P0118701
Facility ID: 0125042120

6. Please provide additional notes or comments as necessary:

None

7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	18.4
NO _x	22.1
CO	74.2
VOC	36.4
SO ₂	16.2

PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: HClerk@epa.ohio.gov

Draft Air Pollution Permit-to-Install and Operate Administrative Modification

The Apple-Smith Corporation

3040 MCKINLEY AVE., Columbus, OH 43204

ID#:P0118701

Date of Action: 10/27/2016

Permit Desc:FEPTIO renewal for a 134 TPH hot mix asphalt plant, including an administrative modification to change the synthetic minor strategy from an annual production throughput restriction to an annual hours of operation restriction.

The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the ID # or: Pamela McCoy, Ohio EPA DAPC, Central District Office, 50 West Town Street, 6th Floor P.O. Box 1049, Columbus, OH 43216-1049. Ph: (614)728-3778



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
The Apple-Smith Corporation**

Facility ID:	0125042120
Permit Number:	P0118701
Permit Type:	Administrative Modification
Issued:	10/27/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install and Operate
for
The Apple-Smith Corporation

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Draft Permit-to-Install and Operate

The Apple-Smith Corporation

Permit Number: P0118701

Facility ID: 0125042120

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0125042120
Application Number(s): A0053142
Permit Number: P0118701
Permit Description: FEPTIO renewal for a 134 TPH hot mix asphalt plant, including an administrative modification to change the synthetic minor strategy from an annual production throughput restriction to an annual hours of operation restriction
Permit Type: Administrative Modification
Permit Fee: \$625.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 10/27/2016
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

The Apple-Smith Corporation
3040 MCKINLEY AVE
Columbus, OH 43204

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

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Draft Permit-to-Install and Operate

The Apple-Smith Corporation

Permit Number: P0118701

Facility ID: 0125042120

Effective Date: To be entered upon final issuance

Authorization (continued)

Permit Number: P0118701

Permit Description: FEPTIO renewal for a 134 TPH hot mix asphalt plant, including an administrative modification to change the synthetic minor strategy from an annual production throughput restriction to an annual hours of operation restriction

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:

P901

Company Equipment ID:

HMA Batch Plant

Superseded Permit Number:

P0115136

General Permit Category and Type:

Not Applicable



Draft Permit-to-Install and Operate
The Apple-Smith Corporation
Permit Number: P0118701
Facility ID: 0125042120
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions

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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

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

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

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Draft Permit-to-Install and Operate
The Apple-Smith Corporation
Permit Number: P0118701
Facility ID: 0125042120
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



Draft Permit-to-Install and Operate

The Apple-Smith Corporation

Permit Number: P0118701

Facility ID: 0125042120

Effective Date: To be entered upon final issuance

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.
2. The following emissions unit contained in this permit is subject to 40 CFR Part 60, Subpart I: P901. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Ohio EPA, Central District Office.



Draft Permit-to-Install and Operate
The Apple-Smith Corporation
Permit Number: P0118701
Facility ID: 0125042120
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. P901, HMA Batch Plant

Operations, Property and/or Equipment Description:

134 TPH Hot Mix Asphalt Batch Plant (natural gas, No. 2 fuel oil, on-spec used oil)

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

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

a. See b)(1)h. and g)(1) below.

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

a. See b)(1)g., b)(2)b., d)(4), d)(5), e)(3), and f)(1)a. through f)(1)h. below.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to 40 CFR Part 60, Subpart I.
b.	OAC rule 3745-17-07(B)	Visible particulate emission of fugitive dust shall not exceed 20% opacity, as a 3-minute average.
c.	OAC rule 3745-17-08(B)	See b)(2)a. below.
d.	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-05(D).
e.	OAC rule 3745-18-06(E)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(D).



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The Apple-Smith Corporation

Permit Number: P0118701

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-31-05(A)(3)	Install a baghouse designed to meet 0.03 gr PE ¹ /dscf. Best available technology for nitrogen oxides (NO _x), carbon monoxide (CO), volatile organic compounds (VOC), and sulfur dioxide (SO ₂) are equivalent to the rolling, 12-month limitations established under OAC rule 3745-31-05(D) See b)(2)b. below.
g.	OAC rule 3745-31-05(D) [Federally Enforceable Limitations]	See b)(2)b. below.
h.	OAC Chapter 3745-114 ORC 3704.03(F) [Toxic Air Contaminants]	See g)(1) below.
i.	NSPS 40 CFR Part 60, Subpart I [In accordance with 40 CFR Part 60 Subpart I 60.90(a) and (b), this emissions unit is a hot mix asphalt plant that has commenced construction or modification after June 11, 1973, and is subject to the emissions limitations/control measures specified in 40 CFR Part 60 Subpart I.]	No owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any affected facility any gases which contain PE in excess of 0.04 gr/dscf or exhibit 20 percent opacity, or greater.

(2) Additional Terms and Conditions

a. Appendix A, Area Fugitive Dust Control Measures

- i. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible particulate emissions of fugitive dust from the aggregate storage bins.
- ii. The aggregate loaded into the cold aggregate bins shall have a moisture content sufficient to minimize or eliminate visible particulate emissions of fugitive dust from conveyors and all transfer points to the dryer.
- iii. Installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control fugitive dust. Such equipment

¹ In this permit, PE are being used as surrogate for both particulate emissions 10 microns or less in diameter (PM₁₀) and particulate emissions 2.5 microns or less in diameter (PM_{2.5}).

shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust.

b. Federally Enforceable Restrictions

For purposes of securing federally enforceable terms to avoid federal NSR and/or Title V rules, the following production limitations and emission limitations apply:

- i. 18.4 tons of PE per rolling 12-month period (stack and fugitive emissions) and 11.5 pounds of PE per hour (stack emissions);
- ii. 22.1 tons of NO_x per rolling 12-month period (stack emissions) and 16.1 pounds of NO_x per hour (stack emissions);
- iii. 74.2 tons of CO per rolling 12-month period (stack and fugitive emissions) and 53.6 pounds of CO per hour (stack emissions);
- iv. 36.4 tons of VOC per rolling 12-month period (stack and fugitive emissions) and 24.4 pounds of VOC per hour (stack emissions);
- v. 16.2 tons of SO₂ per rolling 12-month period (stack emissions);
- vi. the hours of operation are restricted by the following equation:

$$[(2.9)*(a) + (11.8)*(b)] / 2,000 \leq 16.2 \text{ tons of SO}_2 \text{ per rolling 12-month period, where:}$$

a = Hours of operation while burning natural gas per rolling, 12-month period

b = Hours of operation while burning No. 2 fuel oil and on-spec used oil per rolling, 12-month period

* lb/hr emissions factors may be revised based upon Ohio EPA validated emissions testing and shall be revised if emissions testing results demonstrates higher emissions

- vii. Total hours of operation per rolling, 12-month period, using any approved fuel, shall be limited to 2,750 hours. To ensure enforceability during the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the operation times specified in the following table:

Month(s)	Maximum Allowable Cumulative Operation Hours
1	500
1-2	1,000



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The Apple-Smith Corporation

Permit Number: P0118701

Facility ID: 0125042120

Effective Date: To be entered upon final issuance

1-3	1,500
1-12	2,750

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

c) Operational Restrictions

(1) Raw Material and Fuel Use Restrictions

- a. The permittee shall burn only No. 2 fuel oil, on-spec used oil or natural gas in this emissions unit.
- b. When a scheduled/planned fuel switch occurs, the permittee shall complete the emission testing required for that fuel in accordance with f)(1)a. and shall perform burner tuning in accordance with f)(2)e.

In the event that the primary fuel supply is unexpectedly interrupted and an unscheduled/unplanned fuel switch is necessary, the permittee shall notify Ohio EPA, Central District Office in the appropriate quarterly report following the unscheduled/unplanned fuel switch.

- c. No. 2 fuel oil burned in this emissions unit shall meet U.S. EPA's specifications for Ultra Low Sulfur Diesel (ULSD) found in 40 CFR 80.510(c).
- d. The permittee may not receive or burn any used oil which does not meet the standards in OAC rule 3745-279-11 and the specifications listed in this permit without first obtaining a permit-to-install or permit-to-install and operate that authorizes the burning of off-specification used oil. The burning of off-specification used oil, subject to OAC rule 3745-279-60 through 67, is prohibited as a fuel in this emissions unit.
- e. The permittee may substitute reclaimed asphalt pavement (RAP) or shingles in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials. The permittee may not substitute other raw materials not specifically identified in this FEPTIO without prior approval from Ohio EPA.
- f. Asphalt shingles removed from buildings (tear-off material) may be used but only if it has been determined that they do not contain asbestos. Verification that the shingles do not contain asbestos can either be done by actual testing of a representative sample of the shingles, or by verification from the shingle supplier that the shingles do not contain asbestos. Records shall be kept documenting the asbestos verification of any shingles used in the feed mix consistent with the language requirements in the standard terms and conditions.

(2) Used Oil Specifications

Each shipment of oil burned in this emissions unit shall be on-specification (on-spec) oil and shall meet the used oil specifications contained in OAC rule 3745-279-11. The permittee shall determine that the used fuel oil meets these specifications by performing analyses or obtaining copies of analyses or other information from the supplier documenting that the used fuel oil does not exceed (except for flash point which shall not fall below) the following limitations:

Contaminant/Property	Allowable Specifications
Arsenic	5 ppm, maximum
Cadmium	2 ppm, maximum
Chromium	10 ppm, maximum
Total halogens	less than 1,000 ppm; or 4,000 ppm maximum if the presumption that the used oil contains hazardous waste is rebutted, as described below
Lead	100 ppm, maximum
Flash point	100°F, minimum

The used oil burned in this emissions unit shall contain less than the quantifiable levels of PCBs as defined in 40 CFR 761.3; and shall also not exceed the following mercury limitation nor fall below the following heating value:

Heat content	135,000 Btu/gallon, minimum
PCBs	2 ppm, maximum
Mercury	1 ppm, maximum

Used oil containing 1,000 ppm or greater total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph (B)(1) of rule 3745-279-10 of the Administrative Code. The permittee may receive and burn used oil equaling or exceeding 1,000 ppm total halogens, but less than 4,000 ppm, only if the permittee has successfully demonstrated, pursuant to OAC rule 3745-279-63, that the used oil does not contain a listed hazardous waste, by either acquiring and maintaining source process information which demonstrates that the used oil was contaminated by halogenated constituents that would not be listed hazardous waste or by demonstrating that the used oil does not contain significant concentrations of halogens by acquiring and maintaining representative analytical data. Acceptable analytical test protocols that can

be used to analyze used oil for halogenated hazardous constituents include SW-846 Test Methods 9075, 9076, and 9077.*

If analytical results demonstrate that used oil containing 1,000 ppm or more total halogens, but less than 4,000 total halogens, does not contain greater than 100 ppm of any individual halogenated hazardous constituent found in the F001 and F002 listings in OAC rule 3745-51-31 and there is no information suggesting that any other halogenated hazardous constituent (e.g., chlorinated pesticides) has come in contact with the oil, then the presumption that the oil contains hazardous waste has been successfully rebutted.** The rebuttable presumption does not apply to either metal working oils/fluids containing chlorinated paraffins, if processed through a tolling arrangement as described in OAC rule 3745-279-24(C), or used oils contaminated with chlorofluorocarbons removed from refrigeration units.

The burning of used oil not meeting the above limitations is prohibited in this emissions unit and the fuel oil analyses shall document compliance with each limitation before it is burned. The management and burning of used oil is subject to the Standards for the Management of Used Oil, OAC Chapter 3745-279, and the permittee shall document and assure that used oils burned in this emissions unit meet all of the applicable requirements of this Chapter. If the used oil analyses shows total halogens of 1,000 ppm or greater, the permittee shall obtain and maintain all the necessary records to successfully rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste in accordance with this permit.

*EPA publication SW-846, 3rd (or most current) edition, is available from the Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250-7954; 202/512-1800, document number 955-001-00000-1.

**DMWM policy documented in "Used Oil Burners - New Guidance for Rebuttable Presumption", published April 2008 or most current policy.

d) Monitoring and/or Recordkeeping Requirements

(1) Maintaining the Baghouse

a. Baghouse Maintenance Plan

The owner/operator shall develop and implement a baghouse maintenance plan designed to ensure that the baghouse continues to operate as designed. This Baghouse Maintenance Plan can either be developed in-house or can be developed by the manufacturer of the baghouse. This Baghouse Maintenance Plan shall include, at a minimum, the following elements:

- i. The frequency of inspection of the baghouse for maintenance purposes;
- ii. A description of the baghouse components to be inspected at each inspection. It is acceptable to have different inspection frequencies for different baghouse components;

- iii. A description of any procedures to be used to verify the proper operation of any of the baghouse components to be inspected at each inspection;
- iv. The identification of the record keeping form/record that will be used to track the maintenance inspection. This form/record should include, at a minimum, the following elements:
 - (a) Date of the maintenance inspection
 - (b) Name of the employee who can verify that the inspection was completed;
 - (c) Result of the inspection (component repaired, in need of repair, replaced, adjusted, no adjustment needed, etc.);
 - (d) Date component repaired, replaced or adjusted; and
 - (e) Name of the employee who can verify that the component was repaired, replaced or adjusted;
- v. A description of how and where the records shall be maintained.

The permittee shall begin using the Baghouse Maintenance Plan within 30 days from the date Ohio EPA approved the initial plan. As needs warrant, the permittee can modify the Baghouse Maintenance Plan. The permittee shall submit a copy of proposed revisions to the Baghouse Maintenance Plan to the Central District Office for review and approval. The permittee can begin using the revised Baghouse Maintenance Plan once the Central District Office has approved its use.

b. Baghouse Maintenance Plan Inspections

Except as otherwise provided in this section, the permittee shall perform inspections of each of the baghouse components at frequencies described in the Baghouse Maintenance Plan. The purpose of the inspections is to determine the need for maintenance on components of the baghouse. Inspections may be delayed in the case of unsafe working conditions due to weather etc. Any required inspection that is not performed due to unsafe working conditions shall be performed as soon as practical after the working conditions are considered safe.

c. Baghouse Maintenance Plan Recordkeeping

The permittee shall maintain records of the following information:

- i. The records required to be collected under the Baghouse Maintenance Plan, and
- ii. The date and reason any element of the Baghouse Maintenance Plan was not implemented.

The permittee shall maintain these records in accordance to the Standard Terms and Conditions of A.3. of this permit.

(2) Daily Fugitive Visible Emission Checks

The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive non-stack egress points of this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

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

(3) Daily Stack Visible Emission Checks

The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

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

- (4) The permittee shall properly install, operate, and maintain a non-resettable hour meter in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

(5) Monthly Records

The permittee shall maintain monthly records of the following information for this emissions unit:

- a. the operation time, in hours;
- b. the total operation time, in hours, for each fuel type for each month;
- c. the maximum percentage of RAP and shingles used in any mix;
- d. for the first 12 calendar months following the issuance of this permit, the cumulative operating hours, calculated by adding the current month's operating hours to the operating hours for each calendar month since the issuance of this permit;
- e. after the first 12 calendar months following the issuance of this permit, the rolling, 12-month summation of total operation time and the operation time by fuel types, calculated by adding the current month's operation hours to the operation hours for the preceding eleven calendar months; and
- f. the rolling, 12-month summations of PE (stack and fugitive emissions), NO_x (stack emissions), CO (stack and fugitive emissions), VOC (stack and fugitive emissions), and SO₂* (stack emissions).

*The rolling, 12-month summation of SO₂ shall be calculated by using the equation found in b)(2)b.vi. above.

- (6) While performing each burner evaluation/tuning, the permittee shall record the results of the burner evaluation/tuning using the Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants form (as found in g)(2)). An alternative form may be used upon approval of the Ohio EPA, Central District Office.

(7) Used Oil Analysis Records

The permittee shall receive and maintain the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit (or if the oil is generated on site, the permittee shall conduct the chemical analyses), which shall contain the following information*:

- a. the date the used oil was received at the facility and the amount received;
- b. the name, address, and U.S. EPA identification number (if applicable) of the generator, transporter, processor/refiner, supplier, and/or marketer;
- c. the results of the following chemical analyses, demonstrating that the used oil meets the standards in OAC rule 3745-279-11:
 - i. arsenic content, in ppm;
 - ii. the cadmium content, in ppm;
 - iii. the chromium content, in ppm;
 - iv. the lead content, in ppm;
 - v. total halogens, in ppm; and
 - vi. the flash point;
- d. where the chemical analysis shows a total halogen content between 1,000 ppm, and below 4,000 ppm, the successful demonstration for the rebuttal of the presumption that the used oil contains or has been mixed with a listed hazardous waste, as described in OAC rule 3745-279-63(C); and
- e. the results of the analyses demonstrating that the used oil meets the heating value and the mercury and PCB limitations contained in this permit.

Each analysis shall be kept in a readily accessible location for a period of not less than 5 years** following the receipt of each shipment of used oil and shall be made available to the Ohio EPA Division of Materials and Waste Management and/or the Division of Air Pollution Control (the Ohio EPA, Central District Office) upon verbal or written request. Any authorized representative of the Ohio EPA may sample or require sampling of any used oil shipments received, stored, or burned by/at this facility for periodic detailed chemical analyses through an independent laboratory.

*Permittee may use their own used oil recordkeeping form upon approval from Ohio EPA.

**The Division of Air Pollution Control requires these records to be maintained for 5years.

- (8) Fuel Monitoring and Recordkeeping:



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- a. For each day during which the permittee burns a fuel other than natural gas, on-spec used oil or No. 2 fuel oil, the permittee shall maintain a record of the type, percent sulfur content and the quantity of fuel burned in this emissions unit.
 - b. The permittee shall maintain documents provided by the oil supplier for each shipment of No. 2 fuel oil to demonstrate compliance with the ULSD requirement. These documents must include the receipt or bill of lading that includes confirmation that the fuel meets the No. 2 diesel fuel ULSD standard.
 - c. For each shipment of on-spec used oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
- (9) The permittee shall maintain documentation verifying that any shingles employed do not contain asbestos as described in c)(1)e.
- e) Reporting Requirements
- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Central District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
 - (2) Within 30 days from the final issuance of this permit, the permittee shall submit their proposed Baghouse Maintenance Plan to the Ohio EPA, Central District Office.
 - (3) Quarterly Deviation (Excursion) Reports
- The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emissions limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit of any regulated air pollutant and have been detected by the monitoring, recordkeeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month operation time limitations, and for the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative operation hours;



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- ii. all exceedances of the rolling, 12-month PE, NO_x, CO, VOC, and SO₂ emissions limitations;
 - iii. all exceedances of the pound per hour (stack emissions) limitations for PE, NO_x, CO, VOC, and SO₂;
 - iv. all periods of time when the emissions unit burned a fuel other than natural gas, No. 2 fuel oil or on-spec used oil;
 - v. summation of all occurrences when the primary fuel supply is unexpectedly interrupted and an unscheduled/unplanned fuel switch is necessary;
- b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the director (the Central District Office).

(4) Annual Permit Evaluation Report (PER)

The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

In addition to reporting the information as required by the PER instructions, the permittee shall provide the following additional information in the PER:

- a. for the quality of used oil burned in this emissions unit:
 - i. any exceedance of the used oil standards in OAC rule 3745-279-11;
 - ii. any occasion where used oil containing 1,000 ppm or more total halogens was burned prior to receiving information demonstrating a successful rebuttal of the presumption that the used oil contains or has been mixed with a listed hazardous waste;
 - iii. any exceedance of the limitations for mercury and/or PCBs;
 - iv. any deviation from the minimum heat content of 135,000 Btu/gallon;

- b. all exceedances of the RAP and/or shingles raw material mix limitations;
- c. all Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants forms produced during the past calendar year;
- d. all days during which any visible particulate emissions of fugitive dust were observed from either the stack or non-stack egress points of this emissions unit; and
- e. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

The above information shall be provided as an attachment to the PER. If there is no exceedance(s), day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no exceedance(s), day(s) and/or corrective action(s) happen and/or were taken.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitations:

- 11.5 pounds of PE per hour (stack emissions)

- 16.1 pounds of NO_x per hour (stack emissions)

- 53.6 pounds of CO per hour (stack emissions)

- Applicable Compliance Method:

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

- i. The emissions testing shall be conducted by July 31, 2017. In addition, testing shall be conducted as required by c)(1)b., if necessary.
- ii. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for PE, NO_x, and CO. When a scheduled/planned fuel switch occurs, emission testing shall be conducted within 60 days after the switch to the secondary fuel. Prior to secondary fuel use emissions testing, the permittee shall consult the Ohio EPA, Central District Office to determine which pollutants and test methods should be tested.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emissions rate(s) for:

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

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

CO, Methods 1-4 and 10 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. During the emissions testing, the emissions unit shall be operated under operational conditions approved in advance by the Ohio EPA, Central District Office. Operational conditions that may need to be approved include, but are not limited to, the production rate, the type of material processed, material make-up (solvent content, etc.), or control equipment operational limitations (burner temperature, precipitator voltage, etc.). In general, testing shall be done under “worst case” conditions expected during the life of the permit. As part of the information provided in the “Intent to Test” notification form described below, the permittee shall provide a description of the emissions unit operational conditions they will meet during the emissions testing and describe why they believe “worst case” operating conditions will be met. Prior to conducting the test(s), the permittee shall confirm with the Ohio EPA, Central District Office that the proposed operating conditions constitute “worst case”. Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.
- v. 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 emissions test(s).
- vi. 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 the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- vii. 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.

b. Emissions Limitations:

24.4 pounds of VOC per hour (stack emissions)

Applicable Compliance Method:

Compliance with the VOC emissions limitation was demonstrated through emissions testing performed on July 17, 2012 while burning natural gas.

If required, compliance with the VOC emissions limitations shall be demonstrated through stack testing performed in accordance with Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A. Testing shall be conducted while the emissions unit is operating at or near its maximum capacity and while employing RAP.

The VOC pounds per hour emission rate observed during the emission test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7) where the average molecular weight of the VOC emission equals 16, i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

c. Emissions Limitations:

SO₂ emissions shall not exceed the lb/hr limitations listed in b)(2)b.vi.

Applicable Compliance Method:

Compliance with the SO₂ emissions limitation that applies while burning natural gas was demonstrated through emissions testing performed on July 23, 2011.

The SO₂ emissions limitation that applies while burning No. 2 fuel oil and on-spec used oil was established based on the burning of fuel oil with a sulfur content equal to or less than 0.5%. Compliance shall be determined based on the records required by d)(8) above.

If required, compliance with the SO₂ emissions limitations shall be demonstrated through stack testing performed in accordance with Methods 1-4 and 6 of 40 CFR Part 60, Appendix A. Testing shall be conducted while the emissions unit is operating at or near its maximum capacity.

d. Emissions Limitation:

18.4 tons of PE per rolling 12-month period (stack and fugitive emissions)

Applicable Compliance Method:

Compliance shall be determined by a sum of the following calculations:

- i. For the emissions from the baghouse stack, multiply the observed stack emissions rate from the most recent emissions test, in pounds of PE per

hour, by the actual rolling 12-month summation of operation time, in hours per rolling 12-month period (as derived from the records required by d)(5) above), and divide by 2,000 pounds per ton;

- ii. For the emissions from raw material loaded in the weigh hopper/cold feed bins, 0.83 tons of PE per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by 0.94 (94% of asphalt produced is total raw material including aggregate and sand) times the emissions factor of 0.0048 lb of PE per ton of raw materials divided by 2,000 pounds per ton (AP-42 Table 11.12-2 dated 06/2006);
- iii. For the emissions from aggregate handling, 0.72 tons of PE per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by 0.94 (94% of asphalt produced is total raw material including aggregate and sand) multiplied by 0.60 (60% of total raw aggregate material used is aggregate) multiplied by the emissions factor of 0.0069 lb of PE per ton of aggregate throughput divided by 2,000 pounds per ton. (AP-42 Table 11.12-2 dated 06/2006)
- iv. For the emissions from sand handling, 0.14 tons of PE per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by 0.94 (94% of asphalt produced is total raw material including aggregate and sand) multiplied by 0.40 (40% of total raw aggregate material used is sand) the emissions factor of 0.0021 lb of PE per ton of sand throughput divided by 2,000 pounds per ton (AP-42 Table 11.12-2 dated 06/2006);
- v. For the emissions from silo filling, 0.11 tons of PE per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour times the emissions factor of 0.000586 lb of PE per ton of asphalt produced for silo filling divided by 2,000 pounds per ton (AP-42 Table 11.1-14 dated 03/2004);
- vi. For the emissions from asphalt loadout, 0.10 tons of PE per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour times the emissions factor of 0.000522 lb of PE per ton of asphalt produced for loadout divided by 2,000 pounds per ton (AP-42 Table 11.1-14 dated 03/2004);
- vii. For the emissions from aggregate and RAP screening, 0.38 tons of PE per rolling, 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by 0.94 (94% of asphalt produced is total raw aggregate material including aggregate, sand, and RAP) multiplied by the emissions factor of 0.0022 lb of PE per ton of raw material throughput divided by 2,000 pounds per ton (AP-42 Table 11.19.2-2 dated 08/2004); and

viii. For the emissions from conveyor transfer points, 0.19 tons of PE per rolling, 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by 0.94 (94% of asphalt produced is total raw aggregate material including aggregate and sand) multiplied by 8 transfer points multiplied by the emissions factor of 0.00014 lb of PE per ton of raw material throughput divided by 2,000 pounds per ton (AP-42 Table 11.19.2-2 dated 08/2004).

e. Emissions Limitation:

22.1 tons of NO_x per rolling 12-month period (stack emissions)

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emissions rate from the most recent emissions test in pounds of NO_x per hour for each fuel type, by the actual rolling 12-month summation of operation time, in hours per rolling 12-month period by fuel type (as derived from the records required by d)(5) above), and dividing by 2,000 pounds per ton.

f. Emissions Limitation:

74.2 tons of CO per rolling 12-month period (stack and fugitive emissions)

Applicable Compliance Method

Compliance shall be determined by a sum of the following calculations:

- i. If an emissions test has been conducted for CO, multiply the observed stack emissions rate from the most recent emissions test, in pounds of CO per hour, by the actual rolling 12-month summation of operating time, in hours per rolling 12-month period (as derived from the records required by d)(5) above), and divide by 2,000 pounds per ton. If no emissions test has been conducted, multiply the emissions factor of 0.40 lb of CO per ton of asphalt produced emissions factor by the actual rolling 12-month summation of asphalt produced, in tons per rolling 12-month period (as derived from the records required by d)(5) above), and divide by 2,000 pounds per ton (AP-42, Table 11.1-5 dated 03/2004);
- ii. For the emissions from asphalt loadout, 0.25 tons per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by the emissions factor of 0.00135 lb of CO per ton of asphalt produced divided by 2,000 pounds per ton (AP-42, Table 11.1-14 dated 03/2004); and
- iii. For the emissions from asphalt silo filling, 0.22 tons per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by the

emissions factor of 0.00118 lb of CO per ton of asphalt produced divided by 2,000 pounds per ton (AP-42, Table 11.1-14 dated 03/2004).

g. Emissions Limitation:

36.4 tons of VOC per rolling 12-month period (stack and fugitive emissions)

Applicable Compliance Method:

Compliance shall be determined by a sum of the following calculations:

- i. For the emissions from the baghouse stack, multiply the observed stack emissions rate from the most recent emissions test, in pounds of VOC per hour, by the actual rolling 12-month summation of operation time, in hours per rolling 12-month period (as derived from the records required by d)(5) above), and divide by 2,000 pounds per ton;
- ii. For the emissions from asphalt loadout, 0.71 tons per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by the emissions factor of 0.00386 lb of VOC per ton of asphalt produced divided by 2,000 pounds per ton (AP-42, Table 11.1-14 dated 03/2004); and
- iii. For the emissions from asphalt silo filling, 2.2 tons per rolling 12-month period derived from 2,750 hours of operation per rolling, 12-month period multiplied by 134 tons of asphalt produced per hour multiplied by the emissions factor of 0.0122 lb of VOC per ton of asphalt produced divided by 2,000 pounds per ton (AP-42, Table 11.1-14 dated 03/2004).

h. Emissions Limitation:

16.2 tons of SO₂ per rolling 12-month period (stack emissions)

Applicable Compliance Method:

Compliance shall be determined in accordance with the recordkeeping requirements in d)(5) and using the equation found in b(2)b.vi.

i. Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

j. Emissions Limitations:

No owner or operator subject to the provisions of 40 CFR Part 60, Subpart I shall discharge or cause the discharge into the atmosphere from any affected facility any gasses which contain PE in excess of 0.04 gr/dscf and exhibit 20 percent opacity, or greater.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the applicable testing requirements specified in 40 CFR Part 60, Subpart I, in accordance with 40 CFR 60.8 and 40 CFR 60.93.

(2) Burner Evaluation/Tuning

a. Introduction

The permittee is required to conduct periodic evaluation/tuning of the asphalt plant burner as set forth below. The purpose of this evaluation/tuning is to ensure that the burner is adjusted and maintained in order to make the burner as fuel efficient as possible.

b. Qualifications for Burner Evaluation/Tuning

Technicians who conduct the burner evaluation/tuning must be qualified to perform the expected burner evaluation/tuning tasks. In order to be qualified, the technician must have passed manufacturer's training concerning burner evaluation/tuning, or must have been trained by someone who has completed the manufacturer's training concerning burner evaluation/tuning. Burner evaluation/tuning technicians can be either permittee employees or outside parties.

c. Portable Monitor Requirements

Portable monitors used for burner evaluation/tuning shall be properly operated and maintained to monitor the concentration of NO_x, O₂ and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The owner or operator of the portable monitor shall maintain records of each portable monitoring device's calibration.

d. Burner Evaluation/Tuning Procedure

An alternative form may be used as long as it contains the same data elements as the Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants form.

The burner shall be evaluated and, if necessary, tuned based on the frequency described in f)(2)e.

The general procedure for evaluating and, if necessary, tuning the burner involves the following steps:

- i. Review the plant operations to ensure the plant is operating normally based on weather conditions and production.
- ii. Confirm that the portable monitor is calibrated per the manufacturer's specifications.
- iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for NO_x, O₂, and CO. These measurements shall be taken at a location representative of stack emissions. Record the values in the "Pre-Tuning" results column on the Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants form (as found in g)(2) below). An alternative form may be used as long as it contains the same data elements as the Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants form.
- iv. Make any necessary adjustments and repairs to the burner in order to make the burner as fuel efficient as possible.
- v. If adjustments or repairs are made to the burner, then the technician shall re-measure the stack exhaust gas values for NO_x, O₂, and CO. This procedure shall be repeated until the technician is satisfied that the burner has been appropriately tuned. Once he/she is satisfied, then the technician shall record the post tune NO_x, O₂, and CO values in the "Post Tuning" results column on the Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants (or equivalent) form.

Note that the Ohio EPA reserves the right to require permittees to conduct additional emissions tests to verify compliance. Operators who choose not to keep their burners in tune are more likely to be required by Ohio EPA to conduct additional emissions tests to verify compliance. Therefore, it is recommended that permittees make necessary adjustments and repairs to burners as soon as possible and verify that the burner is operating as designed.

- vi. Submit a copy of all Burner Evaluation/Tuning Reporting Form for Asphalt Concrete Plants forms produced during the past calendar year to the Ohio EPA, Central District Office with the PER. Note: These forms are required to be submitted even if the burner is not actually adjusted.

e. Burner Evaluation/Tuning Frequency

The permittee shall conduct the burner evaluation/tuning procedure in May of each year and within 15 production days before or after September 1st of each year.



Draft Permit-to-Install and Operate

The Apple-Smith Corporation

Permit Number: P0118701

Facility ID: 0125042120

Effective Date: To be entered upon final issuance

In addition to the burner evaluation/tuning procedure required above, the permittee shall conduct the burner evaluation/tuning procedure within 20 production days from the date that a scheduled/planned fuel switch occurs.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined by OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase above 1.0 ton per year may require the permittee to apply for and obtain a new permit.
- (2) Burner Evaluation/Tuning Form (See next page)

BURNER EVALUATION/TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS

Facility ID:	Evaluation/Tuning Date:
Legal Name:	Other Company Name (if different than legal name):
Mailing Address:	Other Company Site Address: (if different than mailing address):
City, State, Zip Code:	Other Company City, County, Zip Code:
Site Contact Person:	Site Contact Telephone Number:
Site Contact Title:	Site Contact Fax Number:
Name of company performing evaluation/tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

Reason for Evaluation/Tuning: Season Initial Tuning June Tuning September Tuning
 Fuel Switch Other (describe)

Fuel employed during evaluation/tuning: Natural Gas Propane # 2 Fuel Oil # 4 Fuel Oil
 Used Oil Other (describe)

Evaluation/Tuning Results:

Parameter	Results	
	Pre Tuning	Post Tuning ²
Fuel flow to the burner (gallon/hr) (for fuel oil and on-spec used oil)		
Fuel pressure (psi)		
For burners that require compressed air for proper operation, pressure at the burner (psi)		
Carbon Monoxide (CO) concentrations (ppm) ¹		
NOx concentrations (ppm) ²		
Oxygen concentrations (percent) ²		

Asphalt Production (ton/hr)		
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¹ Specify whether on a dry or wet basis.

² If the burner did not require adjusting, please record N/A in the post tuning column.

Describe in detail a list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturer's specifications. Use additional paper if necessary.

Authorized Signature: This signature shall constitute personal affirmation that all statements or assertions of fact made in this form are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Name of Official (Printed or Typed):	Title of Official and Phone Number:
Signature of Official:	Date:
