



Environmental
Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

9/16/2010

BETH MOWREY
SHELLY MATERIALS PLANT # 4132
PO BOX 266
THORNVILLE, OH 43076

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

Facility ID: 0448010386
Permit Number: P0105892
Permit Type: OAC Chapter 3745-31 Modification
County: Lucas

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
Yes	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact Toledo Department of Environmental Services at (419)936-3015 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: TDES



Response to Comments

Response to comments for: Permit-To-Install and Operate

Facility ID:	0448010386
Facility Name:	SHELLY MATERIALS PLANT # 4132
Facility Description:	Fixed batch mix asphaltic concrete batching plant
Facility Address:	2435 DORR ST TOLEDO, OH 43607 Lucas County
Permit #:	P0105892, OAC Chapter 3745-31 Modification
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Toledo Blade on 05/04/2010. The comment period ended on 06/03/2010.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: **None**
 - a. Comment: **None**
 - b. Response: **None**
2. Topic: **None**
 - a. Comment: **None**
 - b. Response: **None**



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
SHELLY MATERIALS PLANT # 4132**

Facility ID: 0448010386
Permit Number: P0105892
Permit Type: OAC Chapter 3745-31 Modification
Issued: 9/16/2010
Effective: 9/16/2010
Expiration: 9/16/2015



Division of Air Pollution Control
Permit-to-Install and Operate
for
SHELLY MATERIALS PLANT # 4132

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Authorization

Facility ID: 0448010386

Application Number(s): A0038928

Permit Number: P0105892

Permit Description: This is a modification to an existing non-portable batch hot mix asphalt plant. The modification raises the asphalt production to 400,000 tpy and also allows the burning of no. 2 fuel oil, no. 4 fuel oil and used oil.

Permit Type: OAC Chapter 3745-31 Modification

Permit Fee: \$900.00

Issue Date: 9/16/2010

Effective Date: 9/16/2010

Expiration Date: 9/16/2015

Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SHELLY MATERIALS PLANT # 4132
2435 DORR ST
TOLEDO, OH 43607

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

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

Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419)936-3015

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



Authorization (continued)

Permit Number: P0105892

Permit Description: This is a modification to an existing non-portable batch hot mix asphalt plant. The modification raises the asphalt production to 400,000 tpy and also allows the burning of no. 2 fuel oil, no. 4 fuel oil and used oil.

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:	Asphalt Batch Plant
Superseded Permit Number:	P0088126
General Permit Category and Type:	Not Applicable

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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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

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

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Toledo Department of Environmental Services 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 submitting¹ 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 emissions 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

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

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.

B. Facility-Wide Terms and Conditions

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.

C. Emissions Unit Terms and Conditions



1. P901, Asphalt Batch Plant

Operations, Property and/or Equipment Description:

210 ton/hr batch mix hot mix asphalt plant with 100 mmBtu/hr dryer and fabric filter. The unit may burn natural gas, number 2 fuel oil, number 4 fuel oil and/or used oil. 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) 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. g)(1)

(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. b)(1)b., b)(2)f., c)(1), c)(2), d)(1), d)(3)(a) through (e), d)(4), e)(1)(a)(i) through (iii) and e)(1)(b) through (d), f)(1)c., d, e., f., and g.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	<p><i>Stack Emissions</i></p> <p>Nitrogen Oxides (NO_x) emissions while burning natural gas shall not exceed 0.025 pound per ton of asphalt produced;</p> <p>NO_x emissions while burning propane, on-spec used oil or number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.12 pound per ton of asphalt produced;</p> <p>Sulfur dioxide (SO₂) emissions while burning natural gas shall not exceed 0.0046 pound per ton of asphalt</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>produced;</p> <p>SO₂ emissions while burning number 2 fuel oil or on-spec used oil shall not exceed 0.088 pound per ton of asphalt produced;</p> <p>SO₂ emissions while burning number 4 fuel oil shall not exceed 0.150 pound per ton of asphalt produced;</p> <p>Carbon monoxide (CO) emissions while burning natural gas, number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.40 pound per ton of asphalt produced; and</p> <p>Volatile organic compound (VOC) emissions while burning natural gas, number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.14 pound per ton of asphalt produced.</p> <p><i>Asphalt Load Out Emissions</i> Emissions from load out operations shall not exceed 0.24 ton CO per rolling, 12-month period, 0.10 tons PE per rolling, 12-month period and 0.68 tons of VOC per rolling, 12-month period.</p> <p><i>Asphalt Silo Filling Emissions</i> Emissions from silo filling operations shall not exceed 0.21 ton CO per rolling, 12-month period, 0.11 ton PE per rolling, 12-month period and 2.12 tons VOC per rolling, 12-month period.</p> <p><i>Cold End Fugitive Dust Emissions</i> Emissions of fugitive dust associated with the cold aggregate and RAP loading and conveying the cold aggregate and RAP transfer operations shall not exceed 1.69 tons of fugitive dust (PE) per rolling, 12-month period.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I.
b.	OAC rule 3745-31-05 (D) Synthetic minor to avoid Title V	<p><i>Stack Emissions</i></p> <p>PE shall not exceed 13.0 tons per rolling, 12-month period;</p> <p>NO_x emissions shall not exceed 24.0 tons per rolling, 12-month period;</p> <p>SO₂ emissions shall not exceed 30.0 tons per rolling, 12-month period;</p> <p>CO emissions shall not exceed 80.0 tons per rolling, 12-month period; and</p> <p>VOC emissions shall not exceed 28.0 tons per rolling, 12-month period.</p> <p>See b)(2)a. through b)(2)g.; c)(2) and (3).</p>
c.	40 CFR Part 60, subpart I	<p>Particulate emissions (PE) while burning any approved fuel shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf).</p> <p>Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a six minute average.</p> <p>See b)(2)h.</p>
d.	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1) OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B) OAC rule 3745-18-06(E)	The emissions limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3) and (D) or 40 CFR Part 60, subpart I.
e.	OAC rule 3745-15-07	See b)(2)g., c)(4) and (6), d)(3)f. and (5), e)(3) and (9), and f)(3).

(2) Additional Terms and Conditions

- a. The permittee shall ensure that the baghouse is operated with sufficient air volume to eliminate visible fugitive emissions from the rotary drum.
- b. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)a.).
- c. Visible emissions of fugitive dust shall be less than or equal to 10% opacity, as a 3-minute average.
- d. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the aggregate storage bins.
- e. The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.
- f. All number 2 fuel oil, number 4 fuel oil and on-spec used oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5 percent, by weight.
- g. All used oil burned in this emissions unit shall be “on-specification” (on-spec) oil and must meet the used oil fuel specifications contained in OAC rule 3745-279-11, which restricts the used oil to 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 less than 4,000 ppm 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 limitations nor fall below the following heating value:

heat content	135,000 Btu/gallon, minimum
PCB's	less than 2 ppm

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.

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

[OAC rule 3745-279-10, OAC rule 3745-279-11, and OAC rule 3745-279-72; 40 CFR 279.63; 40 CFR 761.20(e); and DHWM policy]

- h. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States

Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

c) Operational Restrictions

- (1) The pressure drop across the fabric filter shall be maintained within the range of 1 to 8 inches of water while the emissions unit is in operation.
- (2) The maximum annual asphalt production rate for this emissions unit shall not exceed 400,000 tons per year, based upon a rolling, 12-month summation of the asphalt production. The permittee has sufficient records to demonstrate compliance with the asphalt production limitation upon permit issuance.
- (3) The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations for VOC, CO and NOx.
- (4) The permittee may substitute reclaimed asphalt pavement (RAP) and/or asphalt shingles in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials. The permittee shall not substitute other raw materials not specifically identified in the PTIO application submitted on 2/22/2010 without prior approval from Ohio EPA.
- (5) The permittee shall only burn natural gas, number 2 fuel oil, number 4 fuel oil and/or on-spec used oil in this emissions unit. In order to use a fuel on an on-going basis, the permittee shall complete the emissions testing for that fuel per paragraph f)(2).
- (6) 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.
- (7) Asphalt shingles removed from buildings (tear-off material) may be used but only if has been determined that they do not contain asbestos. No asbestos containing asphalt shingles may be used as part of the feed mix. 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 manufacturer that the shingles do not contain asbestos. Records shall be kept documenting the asbestos verification of any shingles used in the feed mix. These records shall be maintained in Section A. Standard Terms and Conditions Records Retention Requirements term.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
 - b. the magnitude of the deviation at that time;
 - c. the date the investigation was conducted;
 - d. the name(s) of the personnel who conducted the investigation; and
 - e. the findings and recommendations.
- (2) In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:
- a. a description of the corrective action;
 - b. the date corrective action was completed;
 - c. the date and time the deviation ended;
 - d. the total period of time (in minutes) during which there was a deviation;
 - e. the pressure drop readings immediately after the corrective action was implemented; and
 - f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s).

- (3) The permittee shall maintain monthly records of the following information:
- a. the total asphalt produced for each fuel type;
 - b. the total asphalt production;

- c. the rolling, 12 month summation of the total asphalt production is calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
 - d. the rolling, 12 month summation of the asphalt production by fuel type is calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
 - e. the rolling, 12-month summation of the PE, SO₂, NO_x, CO and VOC emissions; and
 - f. the maximum percentage of RAP and/or shingles used for any mix type.
- (4) For each shipment of number 2 fuel oil, number 4 fuel oil or "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.
- (5) 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 Hazardous Waste Management and/or the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency) 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.

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

- (6) The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal visible particulate emissions from the stack servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
- a. the color of the visible emissions;
 - b. 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 the visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

- (7) The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the hot aggregate elevator, vibrating screens, weigh hopper, rotary drum, the aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit. If visible emissions are observed, the permittee shall note the following in the operation log:
- a. the location and color of the visible emissions;
 - 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 incident; and

- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

- (8) While performing each burner tuning, the permittee shall record the results of the burner tuning using the Burner Tuning Reporting Form for Asphalt Concrete Plants form (as found in g)(2)). An alternative form may be used upon approval of Ohio EPA.
- (9) The permittee shall collect and record the following information each day for the batch mix asphalt plant operation:
 - a. the production rate of the emissions unit;
 - b. the total number of hours the emissions unit was in operation; and
 - c. the average hourly production rate, in tons per hour.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the Potential to Emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. all exceedances of the rolling, 12-month asphalt production limitation;
 - ii. all exceedances of the rolling, 12-month total PE, SO₂, NO_x, VOC, and CO emission limitations;
 - iii. all exceedances of the fuel sulfur content limitation as listed in b)(2)f; and
 - iv. all exceedances of the RAP and/or shingles requirements specified in c)(4) and c)(7).
 - 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 electronically through Ohio EPA Air Services 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 appropriate District Office or local air agency).

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following information concerning the operations of the baghouse:
 - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
 - b. each incident of deviation described in (2)a. (above) where a prompt investigation was not conducted;
 - c. each incident of deviation described in (2)a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. each incident of deviation described in (2)a. where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.
- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (4) The permittee shall identify in the PER the following information concerning the quality of used oil burned in this emissions unit:
 - a. any exceedance of the used oil standards in OAC rule 3745-279-11;
 - b. 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;
 - c. any exceedance of the limitations for mercury and/or PCBs; and
 - d. any deviation from the minimum heat content of 135,000 Btu/gallon.
- (5) The permittee shall identify in the PER the following information concerning the fuel burned and/or raw material mix used in this emissions unit. The permittee shall submit deviation (excursion) reports that identify:

- a. each day when a fuel other than the following: natural gas, number 2 fuel oil, number 4 fuel oil and/or on-specification used oil were burned in this emissions unit.
- (6) The permittee shall identify the following information in the PER in accordance with the monitoring requirements for visible emissions in d)(6) and d)(7) above:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible fugitive particulate emissions were observed from the hot aggregate elevator, vibrating screens, weigh hopper, rotary drum, the aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive particulate emissions.
- (7) The permittee shall submit a copy of the Burner Tuning Reporting Form for Asphalt Concrete Plants form to the appropriate Ohio EPA District Office or local air agency to summarize the results of each burner tuning procedure. This report shall be submitted to the Ohio EPA district office or local air agency in the last quarterly report for each year and shall cover the previous calendar year.
- (8) Where the analytical results for any shipment of used oil burned in this emissions unit establish that the used oil contains total halogens greater than 1,000 ppm, but less than 4,000 ppm, the results of the analysis for total halogens (from the appropriate test Method 9075, 9076, or 9077) and the information obtained to rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste shall be submitted to the appropriate Ohio EPA District Office or local air agency. Each rebuttal demonstration shall include:
- a. the date the used oil was received;
 - b. the facility location or identification number where the oil was or will be burned;
 - c. the amount of oil in the shipment; and
 - d. all information, including all the analytical results, relied upon by the permittee to rebut the presumption that the used oil contains or has been mixed with a listed hazardous waste.
- (9) The rebuttal demonstrations for used oil received from October to December shall be submitted by January 31; used oil received from January to March, by April 30; used oil received from April to June, by July 31; and used oil received from July to September, by October 31.
- f) Testing Requirements
- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

Nitrogen Oxides (NO_x) emissions while burning natural gas shall not exceed 0.025 pound per ton of asphalt produced;

NO_x emissions while burning propane, number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.12 pound per ton of asphalt produced;

Sulfur dioxide (SO₂) emissions while burning natural gas shall not exceed 0.0046 pound per ton of asphalt produced;

SO₂ emissions while burning number 2 fuel oil or on-spec used oil shall not exceed 0.088 pound per ton of asphalt produced;

SO₂ emissions while burning number 4 fuel oil shall not exceed 0.150 pound per ton of asphalt produced;

Carbon monoxide (CO) emissions while burning natural gas, number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.40 pound per ton of asphalt produced; and

Volatile organic compound (VOC) emissions while burning natural gas, number 2 fuel oil, number 4 fuel oil or on-spec used oil shall not exceed 0.14 pound per ton of asphalt produced.

Applicable Compliance Method:

Compliance shall be determined by the stack testing requirements in f)(2).

b. Emission Limitation:

Particulate emissions (PE) from the baghouse exhaust shall not exceed 0.04 gr/dscf.

Applicable Compliance Method:

Compliance shall be determined by the stack testing requirements in f)(2).

c. Emission Limitation:

PE shall not exceed 13.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of PE per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by d)(3)), summing the results for all fuels, and dividing by 2000.

d. Emission Limitation:

NO_x emissions shall not exceed 24.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of NO_x per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by d)(3)), summing the results for all fuels, and dividing by 2000.

e. Emission Limitation:

SO₂ emissions shall not exceed 30.0 tons per rolling, 12-month period

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of SO₂ per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by d)(3)), summing the results for all fuels, and dividing by 2000.

f. Emission Limitation:

CO emissions shall not exceed 80.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of CO per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term and condition d)(3)), summing the results for all fuels, and dividing by 2000.

g. Emission Limitation:

VOC emissions shall not exceed 28.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emissions testing, in pounds of VOC per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by d)(3)), summing the results for all fuels, and dividing by 2000.

h. Emission Limitation:

Visible particulate emissions of from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.

Applicable Compliance Method:

Upon request by the appropriate Ohio EPA District Office or local air agency, compliance shall be determined using Method 9 as set forth in 40 CFR Part 60 Appendix A, as such appendix existed on July 1, 2002 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

i. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 10% opacity as a three-minute average.

Applicable Compliance Method:

Upon request by the appropriate Ohio EPA District Office or local air agency, compliance shall be determined using Method 9 as set forth in 40 CFR Part 60 Appendix A, as such appendix existed on July 1, 2002 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

j. Emission Limitation:

Particulate emissions (PE) while burning any approved fuel shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf).

Applicable Compliance Method:

Compliance shall be determined by the stack testing requirements in f)(2).

k. Emission Limitation:

Asphalt Load Out Emissions - Hot End

Emissions from load out operations shall not exceed:

0.24 ton CO per rolling, 12-month period;

0.10 tons PE per rolling, 12-month period; and

0.68 tons of VOC per rolling, 12-month period.

Asphalt Silo Filling Emissions – Hot End

Emissions from silo filling operations shall not exceed:

0.21 ton CO per rolling, 12-month period;

0.11 ton PE per rolling, 12-month period; and

2.12 tons VOC per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations.

Fugitive emissions from the hot end (hot mix asphalt load-out and silo filling) are calculated as follows using the emission factor equations from AP-42 5th Edition, Table 11.1-14 (3/2004):

Known:

V = -0.5 Asphalt Volatility factor (default)

T = 320 HMA mix temp (°F)

400,000 tons/yr production

For silo filling, 1.4% of TOC is not VOC (AP-42 Table 11.1-16 dated 3/2004)

For plant load-out, 7.3% of TOC is not VOC (AP-42 Table 11.1-16 dated 3/2004)

Activity	Pollutant	Predictive Emission Factor (lb/ton)	EF (lb/ton)	TPY
Silo Filling	PE	$EF=0.000332+0.00105(-V)e^{((0.0251)(T+460)-20.43)}$	0.000556	0.11
Load-out	PE	$EF=0.000181+0.00141(-V)e^{((0.0251)(T+460)-20.43)}$	0.000482	0.10
Silo Filling	VOC	$EF= [0.0504(-V)e^{((0.0251)(T+460)-20.43)}] \times (1-0.014)$	0.010599	2.12
Load-out	VOC	$EF= [0.0172(-V)e^{((0.0251)(T+460)-20.43)}] \times (1-0.073)$	0.003401	0.68
Silo Filling	CO	$EF=0.00488(-V)e^{((0.0251)(T+460)-20.43)}$	0.001041	0.21
Load-out	CO	$EF=0.00558(-V)e^{((0.0251)(T+460)-20.43)}$	0.00119	0.24

I. Emission Limitation: *Fugitive Dust Emissions – Cold End*

Emissions of fugitive dust associated with the cold aggregate, RAP and/or shingle loading, shall not exceed 1.38 ton of PE per rolling 12-month period. (AP-42 5th Edition, Table 11.12-2(6/2006).

Emissions of fugitive dust associated with the cold aggregate, RAP and/or shingle conveying, shall not exceed 0.31 ton of PE per rolling 12-month period. (AP-42 5th Edition, Table 11.19.2-2 (8/2004).

Applicable Compliance Method:

Compliance with the annual emissions limitations shall be assumed based upon the following worst case calculations.

Loading operations:

400,000 tons of material/year X 0.0069 lb PE/ton of material X 1 ton/2000 lbs = 1.38 tons PE/yr

Aggregate transfer/conveying:

400,000 tons of material loaded/year X 0.00014 lb PE/ton of aggregate X 1 ton/2000 lbs X 11 transfer points = 0.31 ton PE/yr

The sum of the above is (1.38 + 0.31) ton PE/yr = 1.69 tons PE/yr

- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 60 days after achieving the maximum production rate for the primary fuel but no later than 120 days after initial startup of the emissions unit. Emissions testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel. For purposes of this permit, secondary fuels shall be fuels used after the initial emissions test for this permit cycle. Emissions testing shall be only once per permitting cycle for each fuel type used.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates, NO_x, VOC, SO₂ and CO, in the appropriate averaging period(s)
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - Particulate – Methods 1-5 of 40 CFR Part 60, Appendix A.
 - NO_x – Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.
 - SO₂ – Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A.
 - CO – Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.
 - VOC – Methods 1-4 and 25 or 25A and/or 18 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s):
 - Visible particulate emissions from any/the stack shall not exceed 20 percent opacity shall be determined by Method 9 and the procedures of 40 CFR 60.11.
 - e. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - f. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity for PE, NO_x, SO₂, CO and VOC, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

- b. **Qualifications for Burner Tuning**
Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a minimum, have passed manufacturer's training concerning burner tuning, or have been trained by someone who has completed the manufacturer's training concerning burner tuning.
- c. **Portable Monitor Requirements**
The permittee shall properly operate and maintain portable device(s) to monitor the concentration of NO_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 permittee shall maintain records of each portable monitoring device's calibration.
- d. **Burner Tuning Procedure**
The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emissions limitations as described in f)(1). The baselines shall be determined for NO_x, and CO. Sampling should measure the exhaust gas values exiting the dryer or the baghouse. The duration of each sample shall follow the portable monitor manufacture's recommendations. Record these values on the Burner Tuning Reporting Form for Asphalt Concrete Plants form (as found in g)(2)) in the "Recent Stack Test Basis Values" column.

Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in f)(4)e. The general procedure for tuning the burner involves the following steps:

- i. Review the plant operations to ensure the plant is operating normally.
- ii. Confirm that the portable monitor is calibrated per the manufacture's specifications.
- iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for O₂, NO_x, and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.
- iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than 115 per cent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to d.v. below.

The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 per cent of the baseline values. Make any necessary adjustments and repairs. Repeat d.iii. and d.iv. until the measured stack exhaust gas values are equal to or less than 115 per cent of the pollutant baseline values.

v. Once all of the measured stack exhaust gas values are within the 115 per cent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.

vi. By January 31 of each year, submit a copy of all *Burner Tuning Reporting Form for Asphalt Concrete Plants* forms produced during the past calendar year to the Toledo Division of Environmental Services.

e. Burner Tuning Frequency

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date. If the baseline level testing or the initial season tuning is done within 30 days prior to June 1 or September 1, the tuning associated with that due date is not required.

(5) In addition to the burner tuning procedure required above, the permittee shall conduct the burner tuning procedure within 20 production days from the date the facility switches to a fuel that is different than the fuel burned during the initial emissions tests that establish the pollutant baseline levels or the fuel burned during the most recent burner tuning procedure, whichever is later.

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 in 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 PTIO 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 to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.

(2) The burner tuning reporting form shall include the following information as indicated in the following form:

Burner Tuning Form (See next page).



BURNER TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS	
Facility ID:	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 tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

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

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

Tuning Results:

Parameter	Recent Stack Test Pollutant Baseline Levels ¹	Results	
		Pre Tuning	Post Tuning ³
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) ²			
NOx concentrations (ppm) ²			
Oxygen concentrations (per cent) ²			
Asphalt Production (tons/hr)			

¹These values are based on the results of the most recent Ohio EPA approved emissions test.

² Specify whether on a dry or wet basis.

³ 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 manufacturers 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: