



4/28/2014

Certified Mail

Mr. Benjamin House
Mt Pleasant Asphalt Company Inc.
3185 Production Drive
Fairfield, OH 45014

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

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1409030042
Permit Number: P0116592
Permit Type: Renewal
County: Butler

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO 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 Josh Mandel," 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
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF 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.

If you have any questions, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: SWOAQA



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Mt Pleasant Asphalt Company Inc.**

Facility ID:	1409030042
Permit Number:	P0116592
Permit Type:	Renewal
Issued:	4/28/2014
Effective:	4/28/2014
Expiration:	4/28/2019



Division of Air Pollution Control
Permit-to-Install and Operate
for
Mt Pleasant Asphalt Company Inc.

Table of Contents

Authorization	1
A. Standard Terms and Conditions	3
1. What does this permit-to-install and operate ("PTIO") allow me to do?	4
2. Who is responsible for complying with this permit?	4
3. What records must I keep under this permit?	4
4. What are my permit fees and when do I pay them?	4
5. When does my PTIO expire, and when do I need to submit my renewal application?	4
6. What happens to this permit if my project is delayed or I do not install or modify my source?	5
7. What reports must I submit under this permit?	5
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?	5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ...	5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?	6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?	6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently?	6
13. Can I transfer this permit to a new owner or operator?	7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?	7
15. What happens if a portion of this permit is determined to be invalid?	7
B. Facility-Wide Terms and Conditions	8
C. Emissions Unit Terms and Conditions	10
1. P902, Asphalt batch plant w fabric filter	11
2. P903, Drum Mix Asphalt Plant	22



Final Permit-to-Install and Operate
Mt Pleasant Asphalt Company Inc.
Permit Number: P0116592
Facility ID: 1409030042
Effective Date: 4/28/2014

Authorization

Facility ID: 1409030042
Application Number(s): A0050407
Permit Number: P0116592
Permit Description: Renewal FEPTIO for a batch mix paving plant and a drum mix asphalt plant
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 4/28/2014
Effective Date: 4/28/2014
Expiration Date: 4/28/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Mt Pleasant Asphalt Company Inc.
3199 Production Drive
Fairfield, OH 45014

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

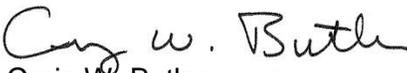
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

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



Authorization (continued)

Permit Number: P0116592

Permit Description: Renewal FEPTIO for a batch mix paving plant and a drum mix asphalt plant

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

Emissions Unit ID:	P902
Company Equipment ID:	Asphalt batch plant w fabric filter
Superseded Permit Number:	P0096679
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P903
Company Equipment ID:	Drum Mix Asphalt Plant
Superseded Permit Number:	P0105411
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Mt Pleasant Asphalt Company Inc.
Permit Number: P0116592
Facility ID: 1409030042
Effective Date: 4/28/2014

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 [DO/LAA] 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.



Final Permit-to-Install and Operate
Mt Pleasant Asphalt Company Inc.
Permit Number: P0116592
Facility ID: 1409030042
Effective Date: 4/28/2014

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

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.



Final Permit-to-Install and Operate
Mt Pleasant Asphalt Company Inc.
Permit Number: P0116592
Facility ID: 1409030042
Effective Date: 4/28/2014

C. Emissions Unit Terms and Conditions



1. P902, Asphalt batch plant w fabric filter

Operations, Property and/or Equipment Description:

Batch-mix paving plant with RAP system

- 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. None.
 - (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., c)(1), d)(2), e)(2), f)(1)c. and f)(2).
- 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 3745-31-05 (A)(3)	Nitrogen Oxide (NO _x) emissions shall not exceed 18.0 pounds per hour. Sulfur dioxide (SO ₂) emissions shall not exceed 13.2 pounds per hour. Carbon monoxide (CO) emissions shall not exceed 60.0 pounds per hour. Volatile organic compound (VOC) emissions shall not exceed 9.9 pounds per hour. Particulate emissions (PE) and Particulate Matter emissions 10 microns and less in diameter (PM10) from the stack shall not exceed 7.4 pounds per hour.



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Fugitive Particulate emissions (PE) and Particulate Matter emissions 10 microns and less in diameter (PM10) shall not exceed 7.0 pounds per hour.</p> <p>Visible particulate emissions from any stack associated with P902 shall not exceed 10 per cent opacity, as a 6-minute average.</p> <p>The requirements of this rule also include compliance with OAC rule 3745-31-05(D), OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B).</p>
b.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD and Title V permitting)	<p>Emissions from the fabric filter stack shall not exceed the following based on a rolling 12-month summation:</p> <p>NO_x emissions shall not exceed 9.0 TPY.</p> <p>SO₂ emissions shall not exceed 6.6 TPY.</p> <p>CO emissions shall not exceed 30.0 TPY.</p> <p>VOC emissions shall not exceed 4.95 TPY.</p> <p>PE/PM10 emissions shall not exceed 3.8 TPY.</p> <p>Fugitive PE/PM10 shall not exceed 3.5 TPY.</p> <p>See c)(1).</p>
c.	40 CFR Part 60, Subpart I	<p>0.04 grain PE per standard cubic foot of exhaust gases.</p> <p>The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>See b)(2)e.</p>



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust shall be less than or equal to 20 per cent opacity, as a 3-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. and b)(2)d.
f.	OAC rule 3745-17-07(A) OAC rule 3745-17-11 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).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations, production limitations, use of a fabric filter at all times the emissions unit is in operation and compliance with 40 CFR Part 60, Subpart I.
- b. The hourly emission limitations outlined in term b)(1)a. are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.
- c. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area.
- d. The aggregate loaded into the bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from elevator and all transfer points to the dryer.
- e. 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 maximum annual asphalt production rate for this emissions unit shall not exceed 150,000 tons per year, based upon a rolling, 12-month summation of the production rates. The permittee has existing records to demonstrate compliance with this limit upon issuance of this permit.
- (2) The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 per cent of all aggregate materials at any given time.
- (3) The emissions from this emissions unit shall be vented to a fabric filter at all times the emissions unit is in operation.



- (4) The pressure drop across the fabric filter shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation.
- (5) The permittee shall only burn natural gas or number 2 fuel oil in this emissions unit. In order to use a fuel on an ongoing basis, the permittee shall complete the emissions testing for that fuel per paragraph f)(1). Any changes in the materials employed/combusted may be deemed a "modification" to the emissions unit and as such will require prior notification and approval from the Southwest Ohio Air Quality Agency.
- (6) The burning of hazardous waste is prohibited without first complying with all applicable state and federal hazardous waste and air regulations.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the fabric filter on daily basis.
- (2) The permittee shall maintain monthly records of the following information for emissions unit P902:
 - a. The monthly asphalt production rate in tons;
 - b. The rolling, 12-month summation of asphalt production calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
 - c. The maximum percentage RAP used in any mix; and
 - d. The updated rolling, 12-month summation emissions total, in tons, for NO_x, CO, VOC, stack PE/PM₁₀, fugitive PE/PM₁₀ and SO₂ for this emissions unit (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months) calculated using the most recent stack test data and AP-42 emission factors identified in f)(1) and the asphalt production, in tons, recorded pursuant to d)(2)b. above.
- (3) The permittee shall perform weekly 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 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.

- (4) The permittee shall perform weekly 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 enclosures for the rotary drum and the hot mix asphalt elevator 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. the cause of the visible particulate emissions;
 - c. the total duration of any visible emissions incident; and
 - d. any corrective actions taken to minimize or eliminate the visible emissions.
- (5) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) 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 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.

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 District Office or Local Air Agency, 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) 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 stack PE/PM10, fugitive PE/PM10, SO₂, NO_x, VOC and CO emission limitations.
 - b. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - c. 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).

- (3) 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.

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:

NO_x emissions shall not exceed 18.0 pounds per hour;

SO₂ emissions shall not exceed 13.2 pounds per hour;

CO emissions shall not exceed 60.0 pounds per hour;

VOC emissions shall not exceed 9.9 pounds per hour;

PE/PM₁₀ shall not exceed 7.4 pounds per hour; and

PE shall not exceed 0.04 grains of particulate per dscf.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 18 months following the issuance of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, VOC, CO, NO_x and SO₂ for the primary fuel. Prior to secondary fuel emissions testing, the permittee shall consult the appropriate Ohio EPA District Office or local air agency to determine which pollutants should be tested.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

PE, 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, 25A, and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7). In lieu of this the permittee shall convert the mass emission value from VOC as carbon to VOC using the molecular weight of propane, i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC emission rate observed during testing (in lbs./hr) by 44 (propane) and dividing by 36 (3 atoms of carbon).

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity and burning natural gas or number 2 fuel oil for PE, VOC, CO, NO_x and SO₂ and employing RAP to verify VOC emissions, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.



Compliance with the PM10 emission limitation shall be demonstrated by compliance with the PE limitation. If required, the permittee shall demonstrate compliance with the PM10 emissions limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix M, Method 201.

b. Emission Limitations:

Visible particulate emissions from any stack associated with emissions unit P902 shall not exceed 10% percent opacity, as a six-minute average.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P902 shall not exceed 20% percent opacity, as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources.")

c. Emissions Limitation:

Allowable emissions from this emissions unit shall not exceed the following based on rolling, 12-month summations:

CO emissions shall not exceed 30.0 TPY.

NO_x emissions shall not exceed 9.0 TPY.

SO₂ emissions shall not exceed 6.6 TPY.

VOC emissions shall not exceed 4.95 TPY.

PE/PM10 emissions shall not exceed 3.8 TPY.

Fugitive PE/PM10 shall not exceed 3.5 TPY.

Applicable Compliance Method:

Compliance with the rolling, 12-month annual emissions limitations shall be demonstrated by the record keeping requirements in d)(2) using the following equations:

actual asphalt production using any fuel type in the drum dryer burner (tons asphalt/year, rolling 12-month summation) x pollutant emission factor (lb pollutant/ton asphalt) x 1 tons/2000 lbs = TPY, rolling 12-month summation

Where: the pollutant emission factor is based on the most recent stack test for the pollutant (in lbs/hr) divided by the plant operating capacity (in tons/hour)



Compliance with the fugitive PE/PM10 emissions limitations shall be demonstrated by adding the calculated fugitive emissions from RACM table 2.18-1 to calculated emissions from RACM table 2.21-1.

Primary fugitive PE/PM10 emissions shall be calculated by multiplying the maximum hourly asphalt production rate for the hourly emissions limitation, and the rolling 12-month production rate recorded in d)(2) for the annual emissions limitation, by the fugitive particulate emission factors from RACM Table 2.21-1 and assuming 90% control for wet material.

Secondary fugitive PE/PM10 emissions shall be calculated by multiplying the maximum hourly RAP processed rate for the hourly emissions limitation, and the rolling, 12-month production rate recorded in d)(2) for the annual emissions limitations, by the fugitive particulate emission factors from RACM Table 2.18-1 for secondary crushing.

d. Emission Limitation:

Fugitive Particulate emissions (PE) and Particulate Matter emissions 10 microns and less in diameter (PM10) shall not exceed 7.0 pounds per hour.

Applicable Compliance Method:

Fugitive PE/PM10 emissions were calculated by adding the calculated primary fugitive emissions from RACM table 2.18-1 to calculated secondary emissions from RACM table 2.21-1.

Primary fugitive PE/PM10 emissions were calculated by multiplying the maximum hourly asphalt production rate by the fugitive particulate emission factors from RACM Table 2.21-1 and assuming 90% control for wet material.

$$150 \text{ tons of asphalt/hour} \times 0.2 \text{ lbs of PE/PM10} \times (1-90) = 3.0 \text{ lbs/hour PE/PM10}$$

Secondary fugitive PE/PM10 emissions were calculated by multiplying the maximum hourly RAP processed rate by the fugitive particulate emission factors from RACM Table 2.18-1 for secondary crushing.

$$2.704 \text{ tons RAP/hour} \times 1.5 \text{ lbs of PE/PM10/ton} = 4.056 \text{ lbs/hour PE/PM10}$$

$$3.0 \text{ lbs/hour PE/PM10} + 4.056 \text{ lbs/hour PE/PM10} = 7.0 \text{ lbs/hour PE/PM10}$$

- (2) Compliance with the annual asphalt production limitation in c)(1) shall be demonstrated by the recordkeeping in d)(2).
- (3) Compliance with the fabric filter pressure drop limitation in c)(4) shall be demonstrated by the recordkeeping in d)(1).
- (4) Compliance with the RAP limitation in c)(2) shall be demonstrated by the recordkeeping in d)(2)



Final Permit-to-Install and Operate
Mt Pleasant Asphalt Company Inc.
Permit Number: P0116592
Facility ID: 1409030042
Effective Date: 4/28/2014

g) Miscellaneous Requirements

(1) None.



2. P903, Drum Mix Asphalt Plant

Operations, Property and/or Equipment Description:

ASTEC Parallel Flow Drum Mix Asphalt Plant

- 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. d)(8).
 - (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., c)(3), d)(3), e)(2), f)(1)e. and f)(2).
- 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 3745-31-05(A)(3)	When burning natural gas or No. 2 fuel oil in the drum dryer burner: Particulate emissions (PE) from the fabric filter stack shall not exceed 3.5 pounds per hour. The PE shall not exceed 0.04 grain particulate/dry standard cubic foot (dscf). Particulate matter emissions 10 microns and less in diameter (PM10) from the fabric filter stack shall not exceed 3.5 pounds per hour. Volatile organic compound (VOC) emissions shall not exceed 18.2 pounds per hour.



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Sulfur dioxide (SO₂) emissions from this emissions unit shall not exceed 2.0 pounds per hour.</p> <p>Nitrogen oxide (NO_x) emissions from this emissions unit shall not exceed 14.3 pounds per hour.</p> <p>Carbon Monoxide (CO) emissions from this emissions unit shall not exceed 29.0 pounds per hour.</p> <p>PE/PM10 from silo filling shall not exceed 0.12 pound per hour.</p> <p>VOC emissions from silo filling shall not exceed 2.52 pounds per hour.</p> <p>CO emissions from silo filling shall not exceed 0.24 pound per hour.</p> <p>PE/PM10 from plant load-out shall not exceed 0.11 pound per hour.</p> <p>VOC emissions from plant load-out shall not exceed 0.86 pound per hour.</p> <p>CO emissions from plant load-out shall not exceed 0.28 pound per hour.</p> <p>See b)(2)b., c)(1), c)(2), c)(4), c)(5), and c)(7).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), and OAC rule 3745-31-05(D).</p>
b.	<p>OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD, non-attainment review (for the 8-hour ozone standard and PM_{2.5}), and Title V requirements.</p>	<p>Allowable emissions from the fabric filter stack, silo filling, and loadout combined, shall not exceed the following based on rolling, 12-month summations:</p> <p>PE shall not exceed 2.67 TPY.</p> <p>PM10 emissions shall not exceed 2.67 TPY.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		VOC emissions shall not exceed 15.53 TPY. SO ₂ emissions shall not exceed 1.4 TPY. NO _x emissions shall not exceed 10.3 TPY. CO emissions shall not exceed 21.28 TPY. See c)(3).
c.	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B) OAC rule 3745-18-06(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(BAT).
d.	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust from any fugitive dust emissions point associated with emissions unit P903 shall not exceed 20 percent opacity, as a 3-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. and b)(2)d.
f.	40 CFR Part 60 Subpart I	0.04 grain PE per standard cubic foot of exhaust gases. The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3). See b)(2)e.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations, production limitations, use of a fabric filter at all times the emissions unit is in operation and compliance with 40 CFR Part 60 Subpart I.
- b. Visible particulate emissions from any stack associated with emissions unit P903 shall not exceed 10% percent opacity, as a six-minute average.
- c. 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 cold feed bins and recycled material (RAP) bin.



- d. The aggregate loaded into the cold feed bins and recycled material (RAP) bin shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
- e. 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.
- f. The hourly emission limitations outlined in term b)(1)a. are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.

c) Operational Restrictions

- (1) The emissions from this emissions unit shall be vented to a fabric filter at all times the emissions unit is in operation.
- (2) To ensure the fabric filter is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, the pressure drop across the fabric filter shall be maintained within the range of 2.0 to 6.0 inches of water while the emissions unit is in operation.
- (3) The maximum annual asphalt production rate for emissions unit P903 shall not exceed 288,000 tons per year based upon a rolling, 12-month summation of the production rate. The permittee has existing records to demonstrate compliance with the rolling, 12-month limitation upon issuance of this permit, therefore first year monthly production limitations are not necessary.
- (4) The use of reclaimed asphalt pavement (RAP) shall be limited to 50 percent for surface, base, and intermediate mixes.
- (5) The permittee may not receive or burn any #2 fuel oil which has a sulfur content greater than 0.50 percent.
- (6) The permittee is allowed only to burn natural gas and #2 fuel oil in this emissions unit. If other fuels are to be burned in this emissions unit, then the permittee shall submit notification and a possible air permit-to-install application to be allowed to burn those other fuels to the Southwest Ohio Air Quality Agency before burning those other fuels in this emissions unit.
- (7) The maximum hourly asphalt production rate for this emissions unit shall not exceed 200 tons per hour, unless the permittee demonstrates, to the satisfaction of the Southwest Ohio Air Quality Agency, compliance with the emission limitations in this permit by stack testing at a higher production rate. In such case, the maximum hourly asphalt production rate for this emissions unit shall be the average rate of production during such stack test.



- (8) The burning of hazardous waste is prohibited without first complying with all applicable state and federal hazardous waste and air regulations.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the fabric filter on a once per shift basis.
- (2) The permittee shall maintain hourly production records of the amount of asphalt produced by this emissions unit, in tons.
- (3) The permittee shall maintain monthly records of the following information for emissions unit P903:
- a. The monthly asphalt production, in tons;
 - b. the rolling, 12-month summation of asphalt production calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
 - c. The maximum percentage RAP used in any mix; and
 - d. the updated rolling, 12-month summation emissions total, in tons, for NO_x, CO, VOC, PE/PM₁₀, and SO₂ for this emissions unit (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months) calculated using the most recent stack test data and AP-42 emission factors identified in f)(1) and the asphalt production, in tons, recorded pursuant to d)(3)b. above.
- (4) For each shipment of #2 fuel 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.
- (5) The permittee shall perform weekly 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 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.

- (6) The permittee shall perform weekly 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 enclosures for the rotary drum and the hot mix asphalt elevator 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. the cause of the visible particulate emissions;
 - c. the total duration of any visible emissions incident; and
 - d. any corrective actions taken to minimize or eliminate the visible emissions.
- (7) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) 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 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) The permit to install and operate for this emissions unit P903 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Heptane

TLV (ug/m3): 1,639,000

Maximum Hourly Emission Rate (lbs/hr): 1.88

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 30.43

MAGLC (ug/m3): 39,023

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).



If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":

- d. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- e. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- f. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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 District Office or Local Air Agency, 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) 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; and



- ii. all exceedances of the rolling 12-month total PE/PM10, SO₂, NO_x, VOC and CO emission limitations.
- 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).

- (3) 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.

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. Emission Limitations (Drum Dryer – Fabric Filter Stack):

PE shall not exceed 3.5 pounds per hour;
PE shall not exceed 0.04 grains of particulate per dscf;
PM10 shall not exceed 3.5 pounds per hour;
VOC emissions shall not exceed 18.2 pounds per hour;
SO₂ emissions shall not exceed 2.0 pounds per hour;
NO_x emissions shall not exceed 14.3 pounds per hour; and
CO emissions shall not exceed 29.0 pounds per hour.

Applicable Compliance Methods:

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

- i. The emission testing shall be conducted within 18 months following the issuance of this permit;
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NO_x, SO₂, and VOC emissions rates;



- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

PE, 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, 25A, and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7). In lieu of this the permittee shall convert the mass emission value from VOC as carbon to VOC using the molecular weight of propane, i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC emission rate observed during testing (in lbs./hr) by 44 (propane) and dividing by 36 (3 atoms of carbon).

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA or Southwest Ohio Air Quality Agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Southwest Ohio Air Quality Agency. 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 Southwest Ohio Air Quality Agency refusal to accept the results of the emission test(s).

Personnel from the Southwest Ohio Air Quality Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Southwest Ohio Air Quality Agency 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 Southwest Ohio Air Quality Agency.

Compliance with the PM10 emission limitation shall be demonstrated by compliance with the PE limitation. If required, the permittee shall demonstrate compliance with the PM10 emissions limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix M, Method 201.

b. Emission Limitations:

Visible particulate emissions from any stack associated with emissions unit P903 shall not exceed 10% percent opacity, as a six-minute average.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P903 shall not exceed 20% percent opacity, as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources.")

c. Emission Limitations:

PE/PM10 from silo filling shall not exceed 0.12 pound per hour;
 VOC emissions from silo filling shall not exceed 2.52 pounds per hour; and
 CO emissions from silo filling shall not exceed 0.24 pound per hour.

Applicable Compliance Method:

Compliance with the silo filling emission limitations shall be demonstrated by applying the emission factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- i. Actual asphalt production rate (tons asphalt/hr) x AP-42 emission factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
- ii. Actual asphalt production rate (tons asphalt/yr) x AP-42 emission factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

Where: PE emission factor is $0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$
 VOC emission factor is $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$
 CO emission factor is $0.00488(-V)e^{((0.0251)(T+460)-20.43)}$;

V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5; and
 T = site-specific asphalt mix temperature, °F or default value of 325 °F.



d. Emission Limitations:

PE/PM10 from plant load-out shall not exceed 0.11 pound per hour;
 VOC emissions from plant load-out shall not exceed 0.86 pound per hour; and
 CO emissions from plant load-out shall not exceed 0.28 pound per hour.

Applicable Compliance Method:

Compliance with the plant load-out emissions limitations shall be demonstrated by applying the emissions factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- i. Actual asphalt production rate (tons asphalt/hr) x AP-42 emission factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
- ii. Actual asphalt production rate (tons asphalt/yr) x AP-42 emission factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

Where: PE emission factor is $0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$
 VOC emission factor is $0.0172(-V)e^{((0.0251)(T+460)-20.43)}$
 CO emission factor is $0.00558(-V)e^{((0.0251)(T+460)-20.43)}$,

V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5; and

T = site-specific asphalt mix temperature, °F or default value of 325 °F.

e. Emission Limitations:

Allowable emissions from this emissions unit (drum dryer, silo filling and load-out combined) shall not exceed the following based on rolling, 12-month summations:

- PE shall not exceed 2.67 TPY;
- PM10 emissions shall not exceed 2.67 TPY;
- VOC emissions shall not exceed 15.53 TPY;
- SO₂ emissions shall not exceed 1.4 TPY;
- NO_x emissions shall not exceed 10.3 TPY; and
- CO emissions shall not exceed 21.28 TPY.

Compliance with the rolling, 12-month annual emissions limitations shall be demonstrated by the record keeping requirements in d)(3) using the following equations:

actual asphalt production using any fuel type in the drum dryer burner (tons asphalt/year, rolling 12-month summation) x pollutant emission factor (lb pollutant/ton asphalt) x 1 tons/2000 lbs = TPY, rolling 12-month summation

Where: the pollutant emission factor is based on the most recent stack test for the pollutant (in lbs/hr) divided by the plant operating capacity (in tons/hour)



Final Permit-to-Install and Operate

Mt Pleasant Asphalt Company Inc.

Permit Number: P0116592

Facility ID: 1409030042

Effective Date: 4/28/2014

The plant load-out and silo filling PE, PM10, CO, and VOC emissions shall be added to the drum dryer burner emissions to determine compliance with the total rolling 12-month summation of pollutant emissions for the drum mix asphalt plant. The methods for determining these emissions using actual asphalt production and AP-42 emission factors is provided above in f)(1)c. and f)(1)d.

- (2) Compliance with the asphalt production limitations in c)(3), c)(4), and c)(7) shall be demonstrated by the record keeping requirements in d)(2) and d)(3).
 - (3) Compliance with the sulfur content limitation in c)(5) shall be demonstrated by the record keeping requirements in d)(4).
- g) Miscellaneous Requirements
- (1) None.