



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

8/2/2016

Brian Thomas  
Owens Corning Roofing and Asphalt, LLC  
890 W. Smith Road  
Medina, OH 44256

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 1652050040  
Permit Number: P0119312  
Permit Type: Administrative Modification  
County: Medina

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. 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**
- **What should you do if you notice a spill or environmental emergency?**

**How to appeal this permit**

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 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](http://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](http://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**

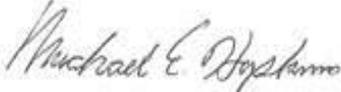
This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

## **What should you do if you notice a spill or environmental emergency?**

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Akron Regional Air Quality Management District at (330)375-2480 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: U.S. EPA  
ARAQMD; Canada



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
Owens Corning Roofing and Asphalt, LLC**

Facility ID:	1652050040
Permit Number:	P0119312
Permit Type:	Administrative Modification
Issued:	8/2/2016
Effective:	8/2/2016





**Division of Air Pollution Control**  
**Permit-to-Install**  
for  
Owens Corning Roofing and Asphalt, LLC

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**Final Permit-to-Install**  
Owens Corning Roofing and Asphalt, LLC  
**Permit Number:** P0119312  
**Facility ID:** 1652050040  
**Effective Date:** 8/2/2016

## Authorization

Facility ID: 1652050040  
Facility Description: Asphalt Felts and Coatings.  
Application Number(s): M0003396  
Permit Number: P0119312  
Permit Description: Administrative Modification to update emissions units P909 and P922 dust collector systems following ductwork redesign/rebalancing, and remove pressure drop monitoring, record keeping and reporting terms that were equivalent or less stringent than MACT LLLLL requirements for emissions unit P907.  
Permit Type: Administrative Modification  
Permit Fee: \$1,750.00  
Issue Date: 8/2/2016  
Effective Date: 8/2/2016

This document constitutes issuance to:

Owens Corning Roofing and Asphalt, LLC  
890 W. Smith Road  
Medina, OH 44256

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

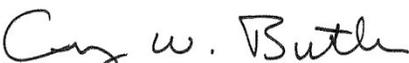
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Akron Regional Air Quality Management District  
1867 West Market St.  
Akron, OH 44313  
(330)375-2480

The above named entity is hereby granted a Permit-to-Install for the 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 emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Director



## Authorization (continued)

Permit Number: P0119312

Permit Description: Administrative Modification to update emissions units P909 and P922 dust collector systems following ductwork redesign/rebalancing, and remove pressure drop monitoring, record keeping and reporting terms that were equivalent or less stringent than MACT LLLLL requirements for emissions unit P907.

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

<b>Emissions Unit ID:</b>	<b>P901</b>
Company Equipment ID:	Parting Agent Handling System
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P904</b>
Company Equipment ID:	Mineral Filler Handling System #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P907</b>
Company Equipment ID:	Asphalt Filler Mixer #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P909</b>
Company Equipment ID:	Material Surfacing Applicator #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P916</b>
Company Equipment ID:	Mat Unwind #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P920</b>
Company Equipment ID:	Mineral Filler Storage System #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P921</b>
Company Equipment ID:	Parting Agent Storage System
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P922</b>
Company Equipment ID:	Surfacing Material System #2
Superseded Permit Number:	P0106755
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install**  
Owens Corning Roofing and Asphalt, LLC  
**Permit Number:** P0119312  
**Facility ID:** 1652050040  
**Effective Date:** 8/2/2016

## **A. Standard Terms and Conditions**

**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
  - (1) Standard Term and Condition A.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

**2. Severability Clause**

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

**3. General Requirements**

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

#### **4. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Akron Regional Air Quality Management District.

- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Akron Regional Air Quality Management District. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
  - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Akron Regional Air Quality Management District every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Akron Regional Air Quality Management District in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## 6. Compliance Requirements

- a) 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 appropriate Ohio EPA District Office or contracted

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 electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Akron Regional Air Quality Management District concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## **7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

**8. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Akron Regional Air Quality Management District.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Akron Regional Air Quality Management District. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**10. Applicability**

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a Permit-to-Install.

**11. Construction of New Sources(s) and Authorization to Install**

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the

Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## 12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.

**13. Construction Compliance Certification**

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

**14. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

**18. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**19. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.



**Final Permit-to-Install**  
Owens Corning Roofing and Asphalt, LLC  
**Permit Number:** P0119312  
**Facility ID:** 1652050040  
**Effective Date:** 8/2/2016

## **B. Facility-Wide Terms and Conditions**



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.
  
2. This facility's existing emissions units are subject to the applicable requirements specified in 40 CFR 63, Subpart LLLLLL - National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asphalt Processing and Asphalt Roofing Manufacturing.
  - a) For each Group 1 asphalt loading rack and blowing still:
    - (1) reduce total hydrocarbon mass emissions by 95%, or to a concentration of 20 ppmv, on a dry basis corrected to 3% oxygen; or
    - (2) route the emissions to a combustion device achieving a combustion efficiency of 99.5%.
  
  - b) Total particulate emissions from the coating mixer, coater, sealant applicator, and adhesive applicator at each existing asphalt manufacturing line shall be limited to 0.04 kilograms per megagram (kg/Mg) (0.08 pounds per ton, lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.
  
  - c) For each existing coater:
    - (1) limit exhaust gases to 20% opacity; and
    - (2) limit visible emissions from the emission capture system to 20% of any period of consecutive valid observations totaling 60 minutes.
  
  - d) For each Group 2 asphalt storage tank:
    - (1) limit exhaust gases to 0% opacity.

Table 7 to Subpart LLLLLL of 40 CFR Part 63 - Applicability of General Provisions to Subpart LLLLLL shows which parts of the General Provisions in 40 CFR 63.1 – 63.15 apply.

The complete NESHAP requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

3. Stack emissions shall be limited to 0.02 grains per dry standard cubic foot (gr/dscf) of particulate emissions for the 3-Wide Process Dust Collector (3WPDC). This limitation was established pursuant to OAC 3745-31-05(F) at the facility's request. The process dust collector controls the following emissions units:

<u>Emissions Unit ID</u>	<u>Source Description</u>	<u>Control Device</u>
P905	Material Surfacing Applicator #1	3WPDC
P914	Mat Unwind #1	3WPDC
P918	Surfacing Material System #1	3WPDC



**Final Permit-to-Install**  
Owens Corning Roofing and Asphalt, LLC  
**Permit Number:** P0119312  
**Facility ID:** 1652050040  
**Effective Date:**8/2/2016

## **C. Emissions Unit Terms and Conditions**



**1. P901, Parting Agent Handling System**

**Operations, Property and/or Equipment Description:**

Parting Agent Handling System - Unloading and transfer of parting agent (backdust) controlled with two baghouses.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate matter with aerodynamic diameter less than or equal to ten microns in diameter (PM <sub>10</sub> ) shall not exceed 0.29 pounds per hour (lb/hr) as combined aggregate emissions from the two baghouses associated with P901. See b)(2)a. and b)(2)b. below.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
c.	OAC rule 3745-17-07(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
d.	OAC rule 3745-17-08(B)(3)	The use bin shall be enclosed to minimize or eliminate fugitive emissions. See b)(2)b. and b)(2)c. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart UU (40 CFR 60.470 – 60.474) [In accordance with 40 CFR 60.470(a) and (b), emissions unit	1% opacity for visible emissions (fugitive and stack emissions) [40 CFR 60.472(d)]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	P901 has mineral handling facilities constructed after November 18, 1980 at an asphalt roofing plant, and is subject to the requirements specified by this section.] See b)(2)a. below	

(2) Additional Terms and Conditions

- a. The specific operations, property, and/or equipment which constitute this emissions unit are listed below:
  - i. parting agent use bin #1 and #2; and
  - ii. belt conveying and transfer of parting agent to use bin #1 and #2.
- b. The emissions from this emissions unit shall be vented to the two baghouses at all times the emissions unit is in operation.
- c. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 grains per dry standard cubic feet (gr/dscf) of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across each baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

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 each baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across each 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), with any modifications deemed necessary by the permittee.

- (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) The range or limit on the pressure drop across each baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring

requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from emissions unit P901 and visible particulate emissions from the stacks 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 emissions incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each period of time (start time and date, and end time and date) when the pressure drop across either baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouses;

- c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
- d. each incident of deviation described in e)(3)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
- e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:

PM<sub>10</sub> shall not exceed 0.29 lb/hr

- Applicable Compliance Method:

If required, compliance with the PM<sub>10</sub> limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Method 201 of 40 CFR Part 51, Appendix M.

- b. Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)



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**Effective Date:** 8/2/2016

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.

**2. P904, Mineral Filler Handling System #2**

**Operations, Property and/or Equipment Description:**

Mineral Filler Handling System #2 - Unloading and transfer of filler for the strip (4-wide) roofing line, controlled with two baghouses.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate matter with aerodynamic diameter less than or equal to ten microns in diameter (PM <sub>10</sub> ) shall not exceed 0.65 pounds per hour (lb/hr) as combined aggregate emissions from the two baghouses associated with P904. See b)(2)a. and b)(2)b. below.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
c.	OAC rule 3745-17-07(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
d.	OAC rule 3745-17-08(B)(3)	See b)(2)b. through b)(2)g. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart UU (40 CFR 60.470 – 60.474) [In accordance with 40 CFR 60.470(a) and (b), emissions unit P904 has mineral handling facilities constructed after November 18, 1980 at an asphalt	1% opacity for visible emissions (fugitive and stack emissions) [40 CFR 60.472(d)]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	roofing plant, and is subject to the requirements specified by this section.] See b)(2)a. below	

(2) Additional Terms and Conditions

- a. The specific operations, property, and/or equipment which constitute this emissions unit are listed below:
  - i. upper surge bin #2 and pneumatic conveying to filler upper surge bin #2;
  - ii. transfer to filler heater #2; and
  - iii. lower surge bin #2 and screw conveying to filler lower surge bin #2.
- b. The emissions from this emissions unit shall be vented to the two baghouses at all times the emissions unit is in operation.
- c. The pneumatic conveying to the upper surge bin, and the upper surge bin shall be of an enclosed design. The upper surge bin shall vent to a baghouse to control particulate emissions.
- d. The transfer of filler material to filler heater #2 shall be accomplished via an enclosed rotary valve.
- e. The screw conveying to the lower surge bin, and the lower surge bin, shall be of an enclosed design. The lower surge bin shall vent to a baghouse to control particulate emissions.
- f. The exhaust from the upper filler surge bin #2 shall exhaust horizontally through the side of the filler tower enclosure. This exhaust has been dispersion modeled as a horizontal exhaust. The exhaust from the lower surge bin #2 shall exhaust within the factory building.
- g. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 grains per dry standard cubic feet (gr/dscf) of exhaust gases or there shall be no visible PE (whichever is less

stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across each baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

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 each baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across each 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), with any modifications deemed necessary by the permittee.

- (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and

- k. 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.

- (3) The range or limit on the pressure drop across each baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from emissions unit P904 and visible particulate emissions from the stacks 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 emissions incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each period of time (start time and date, and end time and date) when the pressure drop across either baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouses;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(3)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
  - e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:  
PM<sub>10</sub> shall not exceed 0.65 lb/hr



Applicable Compliance Method:

If required, compliance with the PM<sub>10</sub> limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Method 201 of 40 CFR Part 51, Appendix M.

b. Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

**3. P907, Asphalt Filler Mixer #2**

**Operations, Property and/or Equipment Description:**

Asphalt Filler Mixer #2 - Filler mixer for the strip (4-Wide) roofing line controlled by Coater #2 fiber bed filter.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate matter with aerodynamic diameter less than or equal to ten microns in diameter (PM <sub>10</sub> ) shall not exceed 0.27 pounds per hour (lb/hr) (stack emissions).  Volatile organic compound (VOC) emissions shall not exceed 11.12 lb/hr.  Carbon monoxide (CO) emissions shall not exceed 0.47 lb/hr.  See b)(2)a. and b)(2)b. below.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-07(B)(1)	Visible PE of fugitive dust shall not exceed 20% opacity as a 3-minute average.
d.	OAC rule 3745-17-08(B)(3)	The filler mixer shall be adequately enclosed and vented to a fiber bed filter.  See b)(2)b. and b)(2)c. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	40 CFR Part 63, Subpart LLLLLL (40 CFR 63.8680 – 63.8698) [In accordance with 40 CFR 63.8681(a), emissions unit P907 is an asphalt roofing manufacturing facility that is part of a major source of hazardous air pollutant (HAP) emissions, and is subject to the requirements specified by this section.]	Limit total PE from the coater, coating mixer, sealant applicator, and adhesive applicator on the 4-Wide Roofing Line to 0.04 kilogram of particulate per megagram (kg/Mg) (0.8 lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced. [40 CFR 63.8684(a)]

(2) Additional Terms and Conditions

- a. The hourly emission limitations are based upon the emission unit’s potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.
- b. The emissions from this emissions unit shall be vented to the fiber bed filter at all times the emissions unit is in operation.
- c. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 grains per dry standard cubic feet (gr/dscf) of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).
- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from the filler mixer and visible particulate emissions from the stacks 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 emissions incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(1)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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.

- (2) The permittee shall maintain records of the inlet gas temperature and pressure drop data along with the 3-hour averages of the inlet gas temperature and pressure drop.
- (3) The permittee must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the following:
  - a. the CPMS must complete a minimum of one cycle of operation for each successive 15-minute period;
  - b. to determine the 3-hour average, the permittee must:
    - i. have a minimum of four successive cycles of operation to have a valid hour of data;
    - ii. have valid data from at least four equally spaced data values for that hour from a CPMS that is not out-of-control according to the permittee's site-specific monitoring plan; and
    - iii. determine the 3-hour average of all recorded readings for each operating day, except as stated in section 63.8690(c) (the permittee must have at least two of the three hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods)); and
  - c. the permittee must record the results of each inspection, calibration, and validation check.
- (4) For each temperature monitoring device, the permittee must meet the requirements of section d)(3) and the following:

- a. locate the temperature sensor in a position that provides a representative temperature;
  - b. for a noncryogenic temperature range, use a temperature sensor with a minimum measurement sensitivity of 2.8 degrees Celsius ( $^{\circ}\text{C}$ ) or 1.0 % of the temperature value, whichever is larger;
  - c. if a chart recorder is used, it must have a sensitivity in the minor division of at least 20 degrees Fahrenheit ( $^{\circ}\text{F}$ );
  - d. perform an accuracy check at least semiannually or following an operating parameter deviation;
    - i. according to the procedures in the manufacturer's documentation; or
    - ii. by comparing the sensor output to redundant sensor output; or
    - iii. by comparing the sensor output to the output from a calibrated temperature measurement device; or
    - iv. by comparing the sensor output to the output from a temperature simulator; and
  - e. conduct accuracy checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor; and
  - f. at least quarterly or following an operating parameter deviation, perform visual inspections of components if redundant sensors are not used.
- (5) For each pressure measurement device, the permittee must meet the requirements of section d)(3) and the following:
- a. locate the pressure sensor(s) in, or as close as possible to, a position that provides a representative measurement of the pressure;
  - b. use a gauge with a minimum measurement sensitivity of 0.12 kiloPascals or a transducer with a minimum measurement sensitivity of 5% of the pressure range;
  - c. check pressure tap pluggage daily, and perform an accuracy check at least quarterly or following an operating parameter deviation:
    - i. according to the procedures in the manufacturer's documentation; or
    - ii. by comparing the sensor to redundant sensor output;
  - d. conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new sensor;

- e. at least monthly or following an operating parameter deviation, perform a leak check of all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage; and
  - f. at least quarterly or following an operating parameter deviation, perform visible inspections on all components if redundant sensors are not used.
- (6) For monitoring parameters other than temperature and pressure drop, the permittee must install and operate a CPMS to provide representative measurements of the monitored parameters.
- (7) As an option to installing the CPMS specified in section d)(3), the permittee may install a continuous emissions monitoring system (CEMS) or a continuous opacity monitoring system (COMS) that meets the requirements specified in 40 CFR 63.8 and the applicable performance specifications of 40 CFR Part 60, Appendix B.
- (8) For each monitoring system, the permittee must develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:
- a. installation of the CPMS, CEMS, or COMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (i.e., on or downstream of the last control device);
  - b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system; and
  - c. performance evaluation procedures and acceptance criteria (i.e., calibrations).
- (9) The site-specific monitoring plan must also address the following:
- a. ongoing operation and maintenance procedures in accordance with general requirements of sections 40 CFR 63.8(c)(1), (c)(3), (c)(4)(ii), (c)(7), and (c)(8);
  - b. ongoing data quality assurance procedures in accordance with the general requirements of section 40 CFR 63.8(d); and
  - c. ongoing record keeping and reporting procedures in accordance with the general requirements of sections 40 CFR 63.10(c), (e)(1), and (e)(2)(i).
- (10) The permittee must conduct a performance evaluation of each CPMS, CEMS, or COMS in accordance with the site-specific monitoring plan.
- (11) The permittee must operate and maintain the CPMS, CEMS, or COMS in continuous operation according to the site-specific monitoring plan.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit semiannual reports that identify the following:
  - a. information required by 40 CFR 63.8693(c);
  - b. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - c. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:  
PM<sub>10</sub> shall not exceed 0.27 lb/hr  
  
Applicable Compliance Method:  
  
If required, compliance with the hourly PE limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Method 201 of 40 CFR Part 51, Appendix M.
  - b. Emission Limitation:  
VOC emissions shall not exceed 11.12 lb/hr  
  
Applicable Compliance Method:  
  
If required, compliance with the hourly VOC limitation identified above shall be determined through results of testing performed in accordance with U.S. EPA Methods 1 through 4 and 18 or 25/25A of 40 CFR Part 60, Appendix A.



c. Emission Limitation:

CO emissions shall not exceed 0.47 lb/hr

Applicable Compliance Method:

If required, compliance with the hourly CO limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

e. Emission Limitation:

Visible PE of fugitive dust shall not exceed 20% opacity as a 3-minute average

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

f. Emission Limitation:

Limit total PE from the coater, coating mixer, sealant applicator, and adhesive applicator on the 4-Wide Roofing Line to 0.04 kg/Mg (0.8 lb/ton) of asphalt shingle or mineral-surfaced roll roofing produced.

Applicable Compliance Method:

Compliance with the allowable PE limitation identified above shall be demonstrated by the following calculations:

$$E = Mpm / P \quad (\text{Eq. 1})$$

Where:

E = Particulate emissions, kilograms of particulate per megagram of roofing product manufactured;

Mpm = Particulate hourly emission rate, kilograms per hour, determined using Equation 2; and

P = Asphalt roofing product manufacturing rate during the emissions sampling period, including and material trimmed from the final product, megagram per hour.

$$Mpm = C \times Q \times K \text{ (Eq. 2)}$$

Where:

Mpm = Particulate hourly emission rate, kilograms per hour;

C = Concentration of particulate on a dry basis, grams per dry standard cubic meter (g/dscm), as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

Q = Vent gas steam flow rate in dry standard cubic meters per minute (dscm/min) at a temperature of 20°C, as measured by the test method specified in Table 3 of 40 CFR Part 63, Subpart LLLLL;

K = Unit conversion constant (0.06 minute-kilogram / hour-gram).

(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 no later than 180 days after the final compliance date for 40 CFR 63, Subpart LLLL.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Methods 1 through 5 of 40 CFR Part 60, Appendix A.

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

- d. 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 appropriate Ohio EPA District Office or local air agency.
- e. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).



- f. 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.
  - g. 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.
- g) Miscellaneous Requirements
- (1) None.

**4. P909, Material Surfacing Applicator #2**

**Operations, Property and/or Equipment Description:**

Material Surfacing Applicator #2 - Application of surfacing materials (i.e., granules and backdust) on the strip (4-Wide) roofing line controlled with one baghouse.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate emissions (PE) shall not exceed 0.01 grain per dry standard cubic foot (gr/dscf) of exhaust gases from the 4-Wide Process Dust Collector (4WPDC). See b)(2)a. below.
b.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-07(B)(1)	Visible PE of fugitive dust shall not exceed 20% opacity as a 3-minute average.
d.	OAC rule 3745-17-08(B)(3)	The applicator shall be adequately enclosed and vented to a baghouse to minimize or eliminate fugitive emissions. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

- (2) Additional Terms and Conditions
  - a. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).
- c) **Operational Restrictions**
  - (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across the baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.
- 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 is 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), with any modifications deemed necessary by the permittee.
  - (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) The 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 appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from the applicator and visible particulate emissions from the stacks 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 emissions incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - 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. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(3)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
  - e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:

PE shall not exceed 0.01 gr/dscf for the 4WPDC.

Applicable Compliance Methods:

If required, compliance with the PE limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Methods 1 through 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

c. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

**5. P916, Mat Unwind #2**

**Operations, Property and/or Equipment Description:**

Mat Unwind #2 - Unwinding of mat prior to dry looper on the strip (4-Wide) roofing line controlled with fabric filter.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate emissions (PE) shall not exceed 0.01 grain per dry standard cubic foot (gr/dscf) of exhaust gases from the 4-Wide Process Dust Collector (4WPDC). See b)(2)a. below.
b.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-07(B)(1)	Visible PE of fugitive dust shall not exceed 20% opacity as a 3-minute average.
d.	OAC rule 3745-17-08(B)(3)	The unwind area shall be vented to a baghouse through the use of localized hoods and/or exhaust pickups to minimize or eliminate fugitive emissions. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

- (2) Additional Terms and Conditions
  - a. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.

- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).
- c) **Operational Restrictions**
  - (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across the baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.
- 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 is 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), with any modifications deemed necessary by the permittee.
  - (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) The 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 appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from emissions unit P916 and visible particulate emissions from the stacks 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 emissions incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - 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. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(3)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
  - e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:

PE shall not exceed 0.01 gr/dscf for the 4WPDC.

Applicable Compliance Methods:

If required, compliance with the PE limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Methods 1 through 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

c. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

(1) None.

**6. P920, Mineral Filler Storage System #2**

**Operations, Property and/or Equipment Description:**

Mineral Filler Storage System #2 - Storage of filler for the strip (4-wide) roofing line, controlled with two baghouses (Filler silos #3 and #4).

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate matter with aerodynamic diameter less than or equal to ten microns in diameter (PM <sub>10</sub> ) shall not exceed 0.55 pounds per hour (lb/hr) as combined aggregate emissions from the two baghouses associated with P920. See b)(2)a. below.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
c.	OAC rule 3745-17-07(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
d.	OAC rule 3745-17-08(B)(3)	The pneumatic unloading and conveying and each storage silo shall be enclosed and vented to a dedicated baghouse to minimize or eliminate fugitive emissions. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart UU (40 CFR 60.470 – 60.474)	1% opacity for visible emissions (fugitive and stack emissions)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	[In accordance with 40 CFR 60.470(a) and (b), emissions unit P920 has mineral storage facilities constructed after November 18, 1980 at an asphalt roofing plant, and is subject to the requirements specified by this section.]	[40 CFR 60.472(d)]

(2) Additional Terms and Conditions

- a. The emissions from this emissions unit shall be vented to the two baghouses at all times the emissions unit is in operation.
- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across each baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

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 each baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across each 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), with any modifications deemed necessary by the permittee.
- (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) The range or limit on the pressure drop across each baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from the filler silos and visible particulate emissions from the stacks 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 emissions incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each period of time (start time and date, and end time and date) when the pressure drop across either baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouses;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(3)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

- e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:

PM<sub>10</sub> shall not exceed 0.55 lb/hr

Applicable Compliance Method:

If required, compliance with the PM<sub>10</sub> limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Method 201 of 40 CFR Part 51, Appendix M.

- b. Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.

**7. P921, Parting Agent Storage System**

**Operations, Property and/or Equipment Description:**

Parting Agent Storage System - Storage of parting agent (backdust) controlled with a baghouse.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

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)	Particulate matter with aerodynamic diameter less than or equal to ten microns in diameter (PM <sub>10</sub> ) shall not exceed 0.09 pounds per hour (lb/hr). See b)(2)a. below.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
c.	OAC rule 3745-17-07(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
d.	OAC rule 3745-17-08(B)(3)	The silo shall be enclosed and vented to a baghouse to minimize or eliminate fugitive emissions. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart UU (40 CFR 60.470 – 60.474) [In accordance with 40 CFR 60.470(a) and (b), emissions unit P921 has mineral storage facilities constructed after November 18,	1% opacity for visible emissions (fugitive and stack emissions) [40 CFR 60.472(d)]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	1980 at an asphalt roofing plant, and is subject to the requirements specified by this section.]	

(2) Additional Terms and Conditions

- a. The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation.
- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across the baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

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 is 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), with any modifications deemed necessary by the permittee.
- (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) The 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 appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from emissions unit P921 and visible particulate emissions from the stacks 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 emissions incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for the baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - 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. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in e)(3)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
  - e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
- a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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 Limitation:

PM<sub>10</sub> shall not exceed 0.09 lb/hr

Applicable Compliance Method:

If required, compliance with the PM<sub>10</sub> limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Method 201 of 40 CFR Part 51, Appendix M.

b. Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)

Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.

**8. P922, Surfacing Material System #2**

**Operations, Property and/or Equipment Description:**

Surfacing Material System #2 - Unloading, transfer, and storage of prime granules controlled with two baghouses.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- 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)	Particulate emissions (PE) shall not exceed 0.01 grain per dry standard cubic foot of exhaust gases (gr/dscf) from the 4-Wide Process Dust Collector (4WPDC) and Roofing Line PDC, individually. See b)(2)a. below.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
c.	OAC rule 3745-17-07(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart UU.
d.	OAC rule 3745-17-08(B)(3)	The use bins shall be adequately enclosed and vented to a baghouse. See b)(2)a. and b)(2)b. below.
e.	OAC rule 3745-17-11(B)(1)	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 60, Subpart UU (40 CFR 60.470 – 60.474) [In accordance with 40 CFR 60.470(a) and (b), emissions unit P922 has mineral handling and	1% opacity from the discharge of any mineral unloading from a carrier, conveyor transfer to the storage silos from the carrier, and the storage silos themselves. [40 CFR 60.472(d)]

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	storage facilities constructed after November 18, 1980 at an asphalt roofing plant, and is subject to the requirements specified by this section.] See b)(2)c. below	

(2) Additional Terms and Conditions

- a. The emissions from this emissions unit shall be vented to the two baghouses at all times the emissions unit is in operation.
- b. The installation and use of hoods, fans, and/or other equipment to adequately enclose, contain, capture, vent, and control fugitive dust from this emissions unit shall meet the following requirements:
  - i. the collection efficiency shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
  - ii. the control equipment for this emissions unit shall achieve an outlet PE rate of not greater than 0.030 gr/dscf of exhaust gases or there shall be no visible PE (whichever is less stringent) from the exhaust stack of this emissions unit. This requirement is less stringent than the requirements of OAC rule 3745-31-05(A)(3).
- c. Any material handling equipment that follows the storage silos (including transfer to use bins and the use bins) does not fall within the definition of a “mineral handling and storage facility” and is not subject to the requirements of 40 CFR Part 60, Subpart UU.

c) Operational Restrictions

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the pressure drop across each baghouse shall be maintained within the normal established operating range while the emissions unit is in operation.

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 each baghouse when the controlled emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across each 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), with any modifications deemed necessary by the permittee.

- (2) 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.

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:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. 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.

- (3) This range or limit on the pressure drop across each baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate 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). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust

from the silo and material handling and visible particulate emissions from the stacks 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 emissions incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(4)d. above or continue the check until the incident has ended. The observer may indicate that the visible emissions 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) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit within 90 days of startup of the emissions unit, documentation of the determined normal pressure drop range, in inches of water, for each baghouse.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each period of time (start time and date, and end time and date) when the pressure drop across either baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouses;
  - c. each incident of deviation described in e)(3)a. (above) where a prompt investigation was not conducted;



- d. each incident of deviation described in e)(3)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
- e. each incident of deviation described in e)(3)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.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (4) The permittee shall submit semiannual reports that identify the following:
  - a. all days during which any visible emissions were observed from the stack servicing this emissions unit or any visible emissions of fugitive dust were observed; and
  - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall cover the reporting period from January 1 through June 30 or the reporting period from July 1 through December 31. The compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

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:

PE shall not exceed 0.01 gr/dscf for the 4WPDC

PE shall not exceed 0.01 gr/dscf for the Roofing Line PDC

- Applicable Compliance Methods:

If required, compliance with the PE limitation identified above shall be determined through the results of testing performed in accordance with U.S. EPA Methods 1 through 5 of 40 CFR Part 60, Appendix A.

- b. Emission Limitation:

1% opacity for visible emissions (fugitive and stack emissions)

- Applicable Compliance Method:

If required, compliance with the visible PE limitation identified above shall be demonstrated through the results of visible emission observations performed in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.



**Final Permit-to-Install**  
Owens Corning Roofing and Asphalt, LLC  
**Permit Number:** P0119312  
**Facility ID:** 1652050040  
**Effective Date:** 8/2/2016

g) Miscellaneous Requirements

(1) None.