



6/4/2014

Dave Haggerty
ARMSTRONG WORLD INDUSTRIES INC
4241 Leap Rd
Hilliard, OH 43026

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

Facility ID: 0125121829
Permit Number: P0116950
Permit Type: Initial Installation
County: Franklin

Certified Mail

Table with 2 columns: Yes/No and various permit conditions like TOXIC REVIEW, SYNTHETIC MINOR TO AVOID MAJOR NSR, etc.

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued...

Andrew Hall and Ohio EPA DAPC, Central District Office
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper...

Sincerely,

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

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

PUBLIC NOTICE

6/4/2014 Issuance of Draft Air Pollution Permit-To-Install and Operate

ARMSTRONG WORLD INDUSTRIES INC

4241 LEAP RD,
Hilliard, OH 43026

Franklin County

FACILITY DESC.: All Other Nonmetallic Mineral Mining

PERMIT #: P0116950

PERMIT TYPE: Initial Installation

PERMIT DESC: FEPTIO to add two new tenoners to the Line #2 shaping operation that will vent to the existing baghouse.

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



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Armstrong World Industries, Inc. (Armstrong) submitted an application to modify the Line #2 shaping operation (emissions unit P006). Currently, P006 consists of two tenoners vented to a baghouse. The tenoners are used to cut down and shape boards. Armstrong is requesting to install two new tenoners and relocate one of the existing tenoners to operate as the cut down saw on Line #2. All three shaping operations on Line #2 (i.e., two tenoners and one central cut saw) will be vented to the existing baghouse.

3. Facility Emissions and Attainment Status:

Armstrong operates a pre-fabricated fiberglass ceiling panel manufacturing facility located in Franklin County. Franklin County is currently in nonattainment for the 1997 annual $PM_{2.5}$ standard and the 2008 eight-hour ozone standard. Armstrong is requesting a federally enforceable limitation to avoid the Title V permitting program for PM_{10} . The synthetic minor strategy consists of limiting P006's PM_{10} emissions to 9.50 tons per rolling, 12-month period by venting all emissions to a baghouse with a grain loading capacity of 0.01 gr/dscf. The appropriate operational, monitoring, recordkeeping, reporting and testing requirements have been established for P006 in order to demonstrate the federally enforceable limitation is not exceeded.

4. Source Emissions:

Emissions unit P006 is a source of particulate emissions from the cutting and shaping of fiberglass panels in Line #2. Armstrong has requested to limit their PM_{10} emissions from P006 to 9.50 tons per rolling, 12-month period. This limitation was established to reflect the unit's potential to emit as vented to the baghouse using the following equation.

$PM_{10} = (\text{grain loading}) \times (\text{air flow rate}) \times (60 \text{ min/hr}) \times (8,760 \text{ hr/yr}) / [(7,000 \text{ gr/lb}) \times (2,000 \text{ lb/ton})]$,
where:

Maximum grain loading = 0.01 gr/dscf

Maximum air flow rate = 25,300 acfm

Best Available Technology (BAT) has been established in accordance with Ohio EPA's February 7, 2014, BAT guidance. Using a case-by-case determination, BAT for PM_{10} and $PM_{2.5}$ emissions was established as a control device design efficiency. Specifically, the permittee shall install a baghouse that is designed to meet 0.01 gr/dscf for PM_{10} and $PM_{2.5}$.



5. Conclusion:

The issuance of P0116950 is recommended.

6. Please provide additional notes or comments as necessary:

None

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM ₁₀ and PM _{2.5}	9.50



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
ARMSTRONG WORLD INDUSTRIES INC**

Facility ID:	0125121829
Permit Number:	P0116950
Permit Type:	Initial Installation
Issued:	6/4/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



**Division of Air Pollution Control
Permit-to-Install and Operate
for
ARMSTRONG WORLD INDUSTRIES INC**

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Draft Permit-to-Install and Operate
ARMSTRONG WORLD INDUSTRIES INC
Permit Number: P0116950
Facility ID: 0125121829

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0125121829
Application Number(s): A0050561
Permit Number: P0116950
Permit Description: FEPTIO to add two new tenoners to the Line #2 shaping operation that will vent to the existing baghouse.
Permit Type: Initial Installation
Permit Fee: \$1,000.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 6/4/2014
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

ARMSTRONG WORLD INDUSTRIES INC
4241 LEAP RD
Hilliard, OH 43026

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

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

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Draft Permit-to-Install and Operate
ARMSTRONG WORLD INDUSTRIES INC

Permit Number: P0116950

Facility ID: 0125121829

Effective Date: To be entered upon final issuance

Authorization (continued)

Permit Number: P0116950

Permit Description: FEPTIO to add two new tenoners to the Line #2 shaping operation that will vent to the existing baghouse.

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

Emissions Unit ID:	P006
Company Equipment ID:	Line #2 Shaping Operations
Superseded Permit Number:	P0107571
General Permit Category and Type:	Not Applicable



Draft Permit-to-Install and Operate
ARMSTRONG WORLD INDUSTRIES INC
Permit Number: P0116950
Facility ID: 0125121829
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions



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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

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

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

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



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

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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



Draft Permit-to-Install and Operate
ARMSTRONG WORLD INDUSTRIES INC
Permit Number: P0116950
Facility ID: 0125121829
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



Draft Permit-to-Install and Operate

ARMSTRONG WORLD INDUSTRIES INC

Permit Number: P0116950

Facility ID: 0125121829

Effective Date: To be entered upon final issuance

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.



Draft Permit-to-Install and Operate
ARMSTRONG WORLD INDUSTRIES INC
Permit Number: P0116950
Facility ID: 0125121829
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. P006, Line #2 Shaping Operations

Operations, Property and/or Equipment Description:

Line #2 Shaping Operations (tenoning& cutting) vented to a baghouse

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

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

a. None.

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

a. b)(1)e., c)(1), d)(3), d)(4), e)(3) and f)(1)c.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a. below.
c.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	The permittee shall install a baghouse designed to meet 0.01 grain per dry standard cubic foot (gr/dscf) for particulate matter less than 10 microns in aerodynamic diameter (PM ₁₀). The permittee shall install a baghouse designed to meet 0.01 gr/dscf for particulate matter less than 2.5 microns in aerodynamic diameter (PM _{2.5}). See b)(2)b. below.
d.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c. below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-31-05(D) (Federally enforceable limitation to avoid Title V)	PM ₁₀ emissions shall not exceed 9.50 tons per rolling, 12-month period. See c)(1) below.

(2) Additional Terms and Conditions

- a. The hourly PE limitation established pursuant to OAC rule 3745-17-11(B) is greater than the potential-to-emit for PE as vented to the baghouse and in accordance with the information provided in the permit application. The monitoring, recordkeeping and testing requirements that ensure emissions from this emissions unit are captured and directed to the baghouse are sufficient to ensure compliance with this limit.
- b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- c. The following rule paragraphs will apply once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan:
 - i. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PM_{2.5} emissions from this air contaminant source since the controlled potentials to emit are less than 10 tons per year.

c) Operational Restrictions

- (1) The emissions from this emissions unit shall be vented to the baghouse at all times the emissions unit is in operation. The PM₁₀ emissions from the baghouse shall not exceed 0.01 gr/dscf.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate and maintain the baghouse in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).
- (2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, and/or operating manual(s) for the baghouse. These documents shall be maintained at the facility and shall be made available to the Ohio EPA, Central District Office upon request.
- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

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.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA, Central District Office. 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 an administrative modification.

- (4) The permittee shall maintain records that document any time periods when the baghouse was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the baghouse was not operated according to the manufacturer's recommendations.
- (5) The permittee shall maintain the following information for maintenance and repairs performed on the baghouse:
 - a. the date of the maintenance and/or repair;
 - b. a description of the maintenance and/or repairs performed; and
 - c. the name of person(s) who performed the maintenance and/or repair.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this



permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

- (3) The permittee shall submit quarterly deviation (excursion) reports for the following emissions unit(s) that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. any daily record showing that the baghouse was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation;
 - ii. 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;
 - iii. each incident of deviation described in "ii" (above) where a prompt investigation was not conducted;
 - iv. each incident of deviation described in "ii" 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;
 - v. each incident of deviation described in "ii" 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;
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

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

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

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:

Visible particulate emissions shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with this limit shall be based on maintaining the baghouse in accordance with the requirements found in Section d) above. If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

The permittee shall install a baghouse designed to meet 0.01 gr/dscffor particulate matter less than 10 microns in aerodynamic diameter (PM₁₀).

The permittee shall install a baghouse designed to meet 0.01 gr/dscffor particulate matter less than 2.5 microns in aerodynamic diameter (PM_{2.5}).

Applicable Compliance Method:

Compliance shall be based on the company supplied design estimate of the baghouse and maintaining the baghouse in accordance with the monitoring and recordkeeping requirements found in Section d) above.

c. Emission Limitation:

PM₁₀ emissions shall not exceed 9.50 tons per rolling, 12-month period.

Applicable Compliance Method:

The rolling, 12-month limitation was established to reflect the potential to emit as vented to the baghouse using the following equation.

$$PM_{10} = (\text{grain loading}) \times (\text{air flow rate}) \times (60 \text{ min/hr}) \times (8,760 \text{ hr/yr}) / [(7,000 \text{ gr/lb}) \times (2,000 \text{ lb/ton})], \text{ where:}$$

Maximum grain loading = 0.01 gr/dscf

Maximum air flow rate = 25,300 acfm

Compliance with this limit shall be based on the records maintained in accordance with Section d) above. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

g) Miscellaneous Requirements

- (1) None.