



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

3/1/2013

CHAD YODER
ProVia Walnut Creek Facility
2150 State Route 39
Sugar creek, OH 44681

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0238000159
Permit Number: P0111731
Permit Type: Initial Installation
County: Holmes

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
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 and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

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

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

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

How to give us feedback on your permitting experience

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

How to get an electronic copy of your permit

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

If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



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

Cc: Ohio EPA-NEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
ProVia Walnut Creek Facility**

Facility ID:	0238000159
Permit Number:	P0111731
Permit Type:	Initial Installation
Issued:	3/1/2013
Effective:	3/1/2013
Expiration:	3/1/2018



Division of Air Pollution Control
Permit-to-Install and Operate
for
ProVia Walnut Creek Facility

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Final Permit-to-Install and Operate
 ProVia Walnut Creek Facility
Permit Number: P0111731
Facility ID: 0238000159
Effective Date: 3/1/2013

Authorization

Facility ID: 0238000159
 Application Number(s): A0045954, A0046292, A0046413
 Permit Number: P0111731
 Permit Description: Installation of: (P002) wood working mill no. 1 - 27 woodworking machines that are vented to a baghouse to control particulate emissions; & enclosed wood waste transfer from the baghouse to a truck trailer; (P003) Wood & plastic mill no. 2 - 3 woodworking & plastic working machines each vented to a baghouse to control particulate emissions; and (P004) wood & plastic mill no. 3 - 2 woodworking & plastic working machines each vent to a cyclone to control particulate emissions.
 Permit Type: Initial Installation
 Permit Fee: \$900.00
 Issue Date: 3/1/2013
 Effective Date: 3/1/2013
 Expiration Date: 3/1/2018
 Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

ProVia Walnut Creek Facility
 2150 State Route 39
 Sugarcreek, OH 22740

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

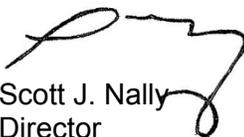
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northeast District Office
 2110 East Aurora Road
 Twinsburg, OH 44087
 (330)425-9171

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


 Scott J. Nally
 Director



Authorization (continued)

Permit Number: P0111731
 Permit Description: Installation of: (P002) wood working mill no. 1 - 27 woodworking machines that are vented to a baghouse to control particulate emissions; & enclosed wood waste transfer from the baghouse to a truck trailer; (P003) Wood & plastic mill no. 2 - 3 woodworking & plastic working machines each vented to a baghouse to control particulate emissions; and (P004) wood & plastic mill no. 3 - 2 woodworking & plastic working machines each vent to a cyclone to control particulate emissions.

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

Emissions Unit ID:	P002
Company Equipment ID:	Mill Room
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	Signet Line Operations - Dantherm
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	Door Line - Donaldson
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
ProVia Walnut Creek Facility
Permit Number: P0111731
Facility ID: 0238000159
Effective Date: 3/1/2013

A. Standard Terms and Conditions



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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

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



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

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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



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

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northeast 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 submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

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

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

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



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

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

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

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

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

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



Final Permit-to-Install and Operate
ProVia Walnut Creek Facility
Permit Number: P0111731
Facility ID: 0238000159
Effective Date: 3/1/2013

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

ProVia Walnut Creek Facility

Permit Number: P0111731

Facility ID: 0238000159

Effective Date: 3/1/2013

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



Final Permit-to-Install and Operate
ProVia Walnut Creek Facility
Permit Number: P0111731
Facility ID: 0238000159
Effective Date: 3/1/2013

C. Emissions Unit Terms and Conditions



1. P002, Mill Room

Operations, Property and/or Equipment Description:

Woodworking mill no. 1: 27 woodworking machines each of which are vented to a Donaldson-Toritbaghouse to control particulate emissions (PE); and enclosed wood waste transfer from the baghouse to a truck trailer. Exhaust air from the wood waste collection trailer is returned to the Donaldson-Toritbaghouse.

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. 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) as effective 11/30/2001	The visible particulate emissions (PE) shall not exceed 0% opacity, as a six-minute average, from the woodworking process and the wood waste handling process, combined. The PE rate shall not exceed 0.01 grains per dry standard cubic foot (grains/dscf) from the woodworking process and the wood waste handling process, combined. See b)(2)a. through b)(2)d.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) as effective 12/01/2006	See b)(2)e.
c.	OAC rule 3745-17-07(A)(1)	The limitation specified by this rule is less stringent than the opacity limitations established pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/2001, for



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		the woodworking process and the wood waste handling process, combined. See b)(2)b. through b)(2)d. and b)(2)f.
d.	OAC rule 3745-17-11(B)(2)	The PE limitation(s) specified by these rules are less stringent than the PE limitations established pursuant to OAC rule 3745-31-05(A)(3), as effective 11/30/2001, for the woodworking process and the wood waste handling process, combined. See b)(2)g.

(2) Additional Terms and Conditions

- a. 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.

The following terms and conditions shall become void after U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP: b)(1)a., f)(1)a. and f)(1)c.

- b. The dust capture devices (such as a hood, a fan or other equipment) to adequately enclose, contain, capture and vent particulate emissions shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the point(s) of capture at the woodworking process and at the wood waste handling process to the extent possible with good engineering design.
- c. The emissions from this emissions unit shall be vented to a baghouse at all times that any of woodworking process equipment associated with this emissions unit is in operation.
- d. The exhaust gases from the wood waste handling process associated this emissions unit shall be vented to the baghouse inlet when wood waste is transferred from the baghouse hopper to the wood waste collection trailer.
- e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. The



requirements of BAT are not required since this emissions unit's potential to emit, taking into account air pollution controls installed on the source, is less than ten tons per year of particulate emissions with a diameter of no more than ten micrometers (PM₁₀), an air contaminant for which a national ambient air quality standard has been adopted under the Clean Air Act.

- f. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan, the visible PE shall not exceed 20% opacity, as a six-minute average, from the stack serving this emissions unit.
- g. OAC rule 3745-17-11, Figure II, which is in the State Implementation Plan, does not have an allowable PE rate if the uncontrolled PE rate is less than 10 lbs/hr.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when any equipment in the woodworking process or the wood waste handling process associated with this emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from any points of capture and/or the stack, the permittee shall also note the following in the operations log:
 - a. Whether the baghouse was exhausted to the ambient air or not;
 - b. the location of the emissions;
 - c. the color of the emissions;
 - d. whether the emissions are representative of normal operations;
 - e. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - f. the total duration of any visible emissions incident; and
 - g. any corrective actions taken to eliminate the visible emissions.

The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (2) The permittee shall record on a daily basis every period of time (start time and date, and end time and date) when the woodworking processor the wood waste handling



process associated with this emissions unit was in operation and the process emissions were not vented to the baghouse.

- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when any equipment at the woodworking process or the wood waste handling process associated with this 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. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

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;
- e. the findings and recommendations; and
- f. whether the baghouse was exhausted to the ambient air or not.

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:

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

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA e-Business Center: Air Services 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.
- (2) The permittee shall identify the following information in the annual permit evaluation report:
 - a. all days during which any visible emissions from any points of capture serving this emissions unit;
 - b. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - c. any corrective actions taken to eliminate the visible particulate emissions;
 - d. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
 - e. any period of time (start time and date, and end time and date) when the woodworking process or the wood waste handling process associated with this emissions unit was in operation and the process emissions were not vented to the baghouse;
 - f. each incident of deviation described in "d." (above) where a prompt investigation was not conducted;
 - g. each incident of deviation described in "d." 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



- h. each incident of deviation described in “d.” 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.

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(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 0% opacity as a 6-minute average, in accordance with the BAT requirements specified in b)(1)a. authorized by OAC rule 3745-31-05(A)(3) as effective 11/30/2001.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

- b. Emission Limitation(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 20% opacity as a 6-minute average, in accordance with the SIP requirements specified in b)(1)c. authorized by OAC rule 3745-17-07(A)(1).

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

- c. Emission Limitation:

The PE rate shall not exceed 0.01 grains/dscf from this emissions unit.

Applicable Compliance Methods:

Compliance may be determined by the following equation(s):

- i. Determination of the maximum, controlled hourly emissions from the woodworking process:

$$PE_{WW} = Q_{BAGHOUSE} \times EF \times \text{lb } PE_{UNCTRL} / 7000 \text{ grains } PE_{UNCTRL} \times 60 \text{ min/hr} \\ \times (1 - CE) \text{ lb } PE / \text{lb } PE_{UNCTRL}.$$



Where:

PE_{WW} = the maximum, controlled PE rate from the woodworking process, which was estimated to be 0.065lb PE/hr.

$Q_{BAGHOUSE}$ = exhaust gas stack flow, which was estimated to be 15,000cubic feet per minute (cfm), as noted in the application for this permit, and an assumed moisture content of 0% and an exhaust gas temperature of at least 68°F (20°C).

EF = uncontrolled PE rate generated from woodworking operations, which is assumed to be 0.05 grain PE_{UNCTRL} /dscf for a woodworking process, determined from a source test in the South Coast Air Quality Management District (SCAQMD), California.

CE = control efficiency of baghouse, which is 99% as noted in the application for this permit.

- ii. Determination of the maximum, controlled hourly emissions from the wood waste handling process:

$$PE_{WH} = Q_{WASTE\ HANDLING} \times EF \times lb\ PE_{UNCTRL} / 7000\ grains\ PE_{UNCTRL} \times 60\ min/hr \times (1 - CE)\ lb\ PE/lb\ PE_{UNCTRL}$$

Where:

PE_{WH} = the maximum, controlled PE rate from the wood waste handling process, which was estimated to be 0.007lb PE/hr.

$Q_{WASTE\ HANDLING}$ = exhaust gas flow from the wood waste collection trailer, which was estimated to be 1600 cubic feet per minute (cfm), as noted in the application for this permit, and an assumed moisture content of 0% and an exhaust gas temperature of at least 68°F (20°C).

EF = uncontrolled PE rate generated from woodworking operations, which is assumed to be 0.05 grain PE_{UNCTRL} /dscf for a woodworking process, determined from a source test in the South Coast Air Quality Management District (SCAQMD), California.

CE = control efficiency of baghouse, which is 99% as noted in the application for this permit.

- iii. Determination of the maximum, controlled particulate emissions concentration from the woodworking process and the wood waste handling process, combined.

$$Concentration_{PE} = (PE_{WW} + PE_{WH}) / Q_{BAGHOUSE} \times 7000\ grains\ PE/lb\ PE \times hr/60\ min.$$



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Effective Date: 3/1/2013

Where:

Concentration_{PE} = the mass concentration of particulate emissions in the baghouse exhaust gas, which was estimated to be 0.00056 grains PE/dscf.

If required, compliance with the PE limitation above shall be determined according to Methods 1 - 5, 40 CFR 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

- (1) The exhaust gases from the control device associated with this emissions unit may be vented indoors or outside, as noted in the application(s) for this permit.



2. P003, Signet Line Operations - Dantherm

Operations, Property and/or Equipment Description:

Wood & plastic mill no. 2: 3 woodworking and plastic working machines each of which are vented to a Dantherm S-1000 baghouse to control particulate emissions

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. 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) as effective 11/30/2001	The visible particulate emissions (PE) shall not exceed 0% opacity, as a six-minute average, from the stack serving this emissions unit. The PE rate shall not exceed 0.01 grains per dry standard cubic foot (grains/dscf) from the stack serving this emissions unit. See b)(2)a. through b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) as effective 12/01/2006	See b)(2)d.
c.	OAC rule 3745-17-07(A)(1)	The limitation specified by this rule is less stringent than the opacity limitations established pursuant to OAC rule 3745-31-05(A)(3) as effective 11/30/2001. See b)(2)b., b)(2)c. and b)(2)e.
d.	OAC rule 3745-17-11(B)(2)	The PE limitation(s) specified by these rules are less stringent than the PE limitations established pursuant to OAC



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rule 3745-31-05(A)(3) as effective 11/30/2001. See b)(2)f.

(2) Additional Terms and Conditions

- a. 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.

The following terms and conditions shall become void after U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP: b)(1)a., f)(1)a. and f)(1)c.

- b. The dust capture devices (such as a hood, a fan or other equipment) to adequately enclose, contain, capture and vent particulate emissions shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the point(s) of capture at the woodworking process to the extent possible with good engineering design.
- c. The emissions from this emissions unit shall be vented to a baghouse at all times that any of woodworking process equipment associated with this emissions unit is in operation.
- d. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. The requirements of BAT are not required since this emissions unit's potential to emit, taking into account air pollution controls installed on the source, is less than ten tons per year of particulate emissions with a diameter of no more than ten micrometers (PM₁₀), an air contaminant for which a national ambient air quality standard has been adopted under the Clean Air Act.
- e. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan, the visible PE shall not exceed 20% opacity, as a six-minute average, from the stack serving this emissions unit.
- f. OAC rule 3745-17-11, Figure II, which is in the State Implementation Plan, does not have an allowable PE rate if the uncontrolled PE rate is less than 10 lbs/hr.



- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when any equipment in the woodworking process associated with this emissions unit is in operation for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from the stack, 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.

The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (2) The permittee shall record on a daily basis every period of time (start time and date, and end time and date) when any of woodworking process equipment associated with this emissions unit was in operation and the process emissions were not vented to the baghouse.
- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when any equipment at the woodworking process associated with this 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. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

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 Northeast 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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA e-Business Center: Air Services 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.



- (2) The permittee shall identify the following information in the annual permit evaluation report:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. any corrective actions taken to eliminate the visible particulate emissions;
 - c. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
 - d. any period of time (start time and date, and end time and date) when any of woodworking process equipment associated with this emissions unit was in operation and the process emissions were not vented to the baghouse;
 - e. each incident of deviation described in "c." (above) where a prompt investigation was not conducted;
 - f. each incident of deviation described in "c." 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
 - g. each incident of deviation described in "c." 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.

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(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 0% opacity as a 6-minute average, in accordance with the BAT requirements specified in b)(1)a. authorized by OAC rule 3745-31-05(A)(3) as effective 11/30/2001.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.



b. Emission Limitation(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 20% opacity as a 6-minute average, in accordance with the SIP requirements specified in b)(1)c. authorized by OAC rule 3745-17-07(A)(1).

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

c. Emission Limitation:

The PE rate shall not exceed 0.01 grains/dscf from this emissions unit.

Applicable Compliance Methods:

Compliance may be determined by the following equation(s):

$$\text{Concentration}_{\text{PE}} = \text{EF} \times (1 - \text{CE}) \text{ (grain PE/dscf)} / \text{(grain PE}_{\text{UNCTRL}}/\text{dscf)}.$$

Where:

$\text{Concentration}_{\text{PE}}$ = the mass concentration of particulate emissions in the baghouse exhaust gas, which was estimated to be 0.0005 grains PE/dscf.

EF = uncontrolled PE rate generated from woodworking operations, which is assumed to be 0.05 grain $\text{PE}_{\text{UNCTRL}}/\text{dscf}$ for a woodworking process, determined from a source test in the South Coast Air Quality Management District (SCAQMD), California.

CE = control efficiency of baghouse, which is 99%, as noted in the application for this permit.

If required, compliance with the PE limitation above shall be determined according Methods 1 - 5, 40 CFR 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

- (1) The exhaust gases from the control device associated with this emissions unit are vented indoors, as noted in the application(s) for this permit.



3. P004, Door Line - Donaldson

Operations, Property and/or Equipment Description:

Wood & plastic mill no. 3: 2 woodworking and plastic working machines each of which are vented to a Donaldson-Torit cyclone to control particulate emissions

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. 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) as effective 11/30/2001	The visible particulate emissions (PE) shall not exceed 0% opacity, as a six-minute average, from the stack serving this emissions unit. The PE rate shall not exceed 0.01 grains per dry standard cubic foot (grains/dscf) from the stack serving this emissions unit. See b)(2)a. through b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) as effective 12/01/2006	See b)(2)d.
c.	OAC rule 3745-17-07(A)(1)	The limitation specified by this rule is less stringent than the opacity limitations established pursuant to OAC rule 3745-31-05(A)(3) as effective 11/30/2001. See b)(2)b., b)(2)c. and b)(2)e.
d.	OAC rule 3745-17-11(B)(2)	The PE limitation(s) specified by these rules are less stringent than the PE limitations established pursuant to OAC



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rule 3745-31-05(A)(3) as effective 11/30/2001. See b)(2)f.

(2) Additional Terms and Conditions

- a. 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.

The following terms and conditions shall become void after U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP: b)(1)a., f)(1)a. and f)(1)c.

- b. The dust capture devices (such as a hood, a fan or other equipment) to adequately enclose, contain, capture and vent particulate emissions shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the point(s) of capture at the woodworking process to the extent possible with good engineering design.
- c. The emissions from this emissions unit shall be vented to a cyclone at all times that any of woodworking process equipment associated with this emissions unit is in operation.
- d. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. The requirements of BAT are not required since this emissions unit's potential to emit, taking into account air pollution controls installed on the source, is less than ten tons per year of particulate emissions with a diameter of no more than ten micrometers (PM₁₀), an air contaminant for which a national ambient air quality standard has been adopted under the Clean Air Act.
- e. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan, the visible PE shall not exceed 20% opacity, as a six-minute average, from the stack serving this emissions unit.
- f. OAC rule 3745-17-11, Figure II, which is in the State Implementation Plan, does not have an allowable PE rate if the uncontrolled PE rate is less than 10 lbs/hr.



- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when any equipment in the woodworking process associated with this emissions unit is in operation, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed from the stack, 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.

The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (2) The permittee shall record on a daily basis every period of time (start time and date, and end time and date) when any of woodworking process equipment associated with this emissions unit was in operation and the process emissions were not vented to the cyclone.
- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the cyclone when any equipment at the woodworking process associated with this emissions unit is in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the cyclone 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. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

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 cyclone is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA Northeast 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.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA e-Business Center: Air Services 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.



- (2) The permittee shall identify the following information in the annual permit evaluation report:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. any corrective actions taken to eliminate the visible particulate emissions;
 - c. each period of time (start time and date, and end time and date) when the pressure drop across the cyclone was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
 - d. any period of time (start time and date, and end time and date) when any of woodworking process equipment associated with this emissions unit was in operation and the process emissions were not vented to the cyclone;
 - e. each incident of deviation described in "c." (above) where a prompt investigation was not conducted;
 - f. each incident of deviation described in "c." 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
 - g. each incident of deviation described in "c." 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.

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(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 0% opacity as a 6-minute average, in accordance with the BAT requirements specified in b)(1)a. authorized by OAC rule 3745-31-05(A)(3) as effective 11/30/2001.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.



b. Emission Limitation(s):

Visible particulate emissions from the stack serving the baghouse for the woodworking process associated with this emissions unit shall not exceed 20% opacity as a 6-minute average, in accordance with the SIP requirements specified in b)(1)c. authorized by OAC rule 3745-17-07(A)(1).

Applicable Compliance Method:

If required, compliance with the stack visible PE limitation(s) shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

c. Emission Limitation:

The PE rate shall not exceed 0.01 grains/dscf from this emissions unit.

Applicable Compliance Methods:

Compliance may be determined by the following equation(s):

$$\text{Concentration}_{PE} = EF \times (1 - CE) \text{ (grain PE/dscf)} / \text{(grain PE}_{UNCTRL}\text{/dscf)}.$$

Where:

$\text{Concentration}_{PE}$ = the mass concentration of particulate emissions in the cyclone exhaust gas, which was estimated to be 0.0010 grains PE/dscf.

EF = uncontrolled PE rate generated from woodworking operations, which is assumed to be 0.05 grain PE_{UNCTRL} /dscf for a woodworking process, determined from a source test in the South Coast Air Quality Management District (SCAQMD), California.

CE = control efficiency of cyclone, which is 98% as noted in the application for this permit.

If required, compliance with the PE limitation above shall be determined according Methods 1 - 5, 40 CFR 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

- (1) The exhaust gases from the control device associated with this emissions unit are vented indoors, as noted in the application(s) for this permit.