



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

10/15/2013

Mr. Ralph Dickman  
ART WOODWORKING & MFG CO  
4238 Dane St  
Cincinnati, OH 45223

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1431070324  
Permit Number: P0115402  
Permit Type: Renewal  
County: Hamilton

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
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	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](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

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

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

Sincerely,



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

Cc: SWOQA



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
ART WOODWORKING & MFG CO**

Facility ID:	1431070324
Permit Number:	P0115402
Permit Type:	Renewal
Issued:	10/15/2013
Effective:	10/15/2013
Expiration:	10/15/2018





**Division of Air Pollution Control**  
**Permit-to-Install and Operate**  
for  
**ART WOODWORKING & MFG CO**

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**Final Permit-to-Install and Operate**  
ART WOODWORKING & MFG CO  
**Permit Number:** P0115402  
**Facility ID:** 1431070324  
**Effective Date:** 10/15/2013

## Authorization

Facility ID: 1431070324  
Application Number(s): A0048162  
Permit Number: P0115402  
Permit Description: PTIO Renewal for four (4) coating operations and one (1) sawdust handling system.  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 10/15/2013  
Effective Date: 10/15/2013  
Expiration Date: 10/15/2018  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

ART WOODWORKING & MFG CO  
DANE & APJONES STS  
CINCINNATI, OH 45223

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

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

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0115402

Permit Description: PTIO Renewal for four (4) coating operations and one (1) sawdust handling system.

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

<b>Emissions Unit ID:</b>	<b>P901</b>
Company Equipment ID:	Sawdust Handling System
Superseded Permit Number:	P0098139
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>R001</b>
Company Equipment ID:	Spray Booth
Superseded Permit Number:	P0098134
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>R002</b>
Company Equipment ID:	Conveyor Line Coating Booth
Superseded Permit Number:	P0098135
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>R003</b>
Company Equipment ID:	Line Sprayer
Superseded Permit Number:	P0098136
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>R004</b>
Company Equipment ID:	Spray Booth
Superseded Permit Number:	P0098138
General Permit Category and Type:	Not Applicable



**Final Permit-to-Install and Operate**  
ART WOODWORKING & MFG CO  
**Permit Number:** P0115402  
**Facility ID:** 1431070324  
**Effective Date:** 10/15/2013

## **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 Southwest Ohio Air Quality Agency 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<sup>1</sup> 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.

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<sup>1</sup>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**  
ART WOODWORKING & MFG CO  
**Permit Number:** P0115402  
**Facility ID:** 1431070324  
**Effective Date:** 10/15/2013

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



1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) 2., 3., 4., 5.
2. The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from emissions units B001, F001, P002, P003, P901, R001, R002, R003, R004, other de minimis air contaminant sources as defined in OAC rule 3745-15-05, and other air contaminant sources exempt from the requirement to obtain a permit to install pursuant to OAC rule 3745-31-05 install subsequent to the issuance of this permit, combined, shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

\* This assumes the HAPs emitted are the same as the amount of HAPs used since all HAPs used evaporate.
3. The permittee shall collect and record the following information each month for the emissions units identified in 2. above:
  - a) The name and identification number of each coating, employed;
  - b) The individual Hazardous Air Pollutant (HAP)\* content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
  - c) The total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from b)];
  - d) The number of gallons of each coating employed;
  - e) The name and identification of each cleaning material employed;
  - f) The individual Hazardous Air Pollutant (HAP)\* content for each HAP of each cleaning material, in pounds of individual HAP per gallon of cleaning material, as applied;
  - g) The total combined HAP content of each cleaning material in pounds of combined HAPs per gallon of cleaning material, as applied [sum all the individual HAP contents from b)];
  - h) The number of gallons of each cleaning material employed;



- i) The total individual HAP usage for each HAP from all coatings and cleaning materials employed, in pounds or tons per month [for each HAP the sum of b) times d) for each coating plus the sum of f) times h) for each cleaning material (and divided by 2000 lbs/ton if the units are in tons)];
- j) The total combined HAP usage from all coatings and cleaning materials employed, in pounds or tons per month [the sum of c) times d) for each coating plus the sum of g) times h) for each cleaning material (and divided by 2000 lbs/ton if the units are in tons)];
- k) The updated rolling, 12-month summation of usage for each individual HAP emissions\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and
- l) The updated rolling, 12-month summation of usage for total combined HAP emissions\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

Monthly records shall be completed within 15 days following the end of each calendar month.

Note: A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting Hamilton County Department of Environmental Services. This information does not have to be kept on an individual emissions unit basis.

\* This assumes the HAP(s) emitted are the same as the amounts of HAP(s) used since all HAP(s) used evaporated.

- 4. The permittee shall submit quarterly deviation (excursion) reports which identify:
  - a) Any exceedance of the rolling, 12-month HAP emission limitations outlined in 2. above;
  - 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 reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by February 15, May 15, August 15, and November 15 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively).

- 5. Compliance with the emission limitations in 2. of these terms and conditions shall be determined in accordance with the following method(s) identified below:



**Final Permit-to-Install and Operate**  
ART WOODWORKING & MFG CO  
**Permit Number:** P0115402  
**Facility ID:** 1431070324  
**Effective Date:** 10/15/2013

a) Emission Limitations:

Actual emissions of Hazardous Air Pollutants (HAPs) shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs, as a 12-month rolling summation, as specified in 2. above.

Applicable Compliance Method:

Compliance with the 12-month rolling HAP limitations shall be demonstrated by the record keeping identified in 3. above.

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



**1. P901, Sawdust Handling System**

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

Sawdust Handling System

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. None.
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Particulate Emissions (PE) shall not exceed 0.98 pound per hour.  Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 0.13 pound per hour.  See b)(2)a through b)(2)d. and c)(1) and c)(2).  The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1).
b.	OAC rule 3745-17-07(A)(1)	The requirements of this rule are less stringent than the requirements established in pursuant to OAC rule 3745-31-05(A)(3).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-07(B)(1)	See b)(2)b.
d.	OAC rule 3745-17-08(B)(3)	The requirements of this rule are less stringent than the requirements established in pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-17-11(A)	The requirements of this rule are less stringent than the requirements established in pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average, except as specified by rule.
- b. Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
- c. Compliance with OAC rule 3745-31-05(A)(3) shall be determined by the use of a baghouse, cyclone, use of a partial enclosure, use of water spray and compliance with the above identified emission limitations.
- d. The hourly and annual emission limitations outlined above are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly or annual records are required to demonstrate compliance with these limits.

c) Operational Restrictions

- (1) The permittee shall employ the use of a partial enclosure to minimize fugitive particulate emissions.
- (2) The permittee shall employ the use of a water spray as needed to minimize fugitive particulate emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) None.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness 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.

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:

Particulate Emissions (PE) shall not exceed 0.98 pound per hour.

Applicable Compliance Method:

Compliance shall be determined by the following method:

Multiply the annual total amount of sawdust collected in TPY by the control efficiency of the cyclone (1 - .82) then by the control efficiency of the baghouse (1 - .99). Divide by the total number of hours per year then multiply by 2000 pounds/ton to get the hourly particulate emissions from the stack.

The fugitive emissions are determined by multiplying the annual amount of sawdust collected by the emission factor of 1.0 lb/ton (RACM 2.17.1 ) then by the control efficiency of a partial enclosure (1 – 0.75) then by the control efficiency of the use of water sprays (1 – 0.80). Divide by the total number of hours per year then multiply by 2000 pounds/ton to get the hourly fugitive particulate emission.

Add the stack emissions to the fugitive emissions to get the total hourly particulate emissions.

b. Emission Limitation:

Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 0.13 pound per hour.

Applicable Compliance Method:

Multiply the total hourly particulate emission rate by 0.13 (the percent of total PE that is PM10) to get the hourly PM10 emission rate.

c. Emission Limitation:

Visible particulate emissions from the stack shall not exceed 5 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.



d. Emission Limitation:

Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

e. Applicable Compliance Method:

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

(1) None.



**2. R001, Spray Booth**

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

Wood Coating Line and associated cleaning, washoff and gluing operations

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)a., b)(2)a., d)(2), d)(3), e)(3), f)(1) and g)(1).

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(D)	<p>Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.</p> <p>See b)(2)a. and section B.2.</p>
b.	OAC rule 3745-17-11(C)	See b)(2)b., c)(1), d)(4) through d)(8)
c.	OAC rule 3745-21-15	Exempt, see b)(1)a.

(2) Additional Terms and Conditions

a. The total allowable volatile organic compound (VOC) emissions from all the wood finishing processes and associated cleaning, wash-off and gluing processes located at this facility shall not exceed 24.9 TPY based on a rolling, 12-month summation. "Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and



temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

- b. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
- c. See Section B.2. of this permit.
- c) Operational Restrictions
  - (1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall collect and record the following information for the purpose of determining annual VOC emissions for emissions unit R001:
    - a. The company identification for each coating and cleanup material employed.
    - b. The number of gallons of each coating and cleanup material employed.
    - c. The volatile organic compound content of each coating and cleanup material, in pounds per gallon.
    - d. The total organic compound emission rate for all coating and cleanup materials, in tons.
    - e. The annual VOC emissions rate for this emissions unit in tons per year. This shall be determined by summing the records in term c)(1)d. for the calendar year.
  - (2) The permittee shall collect and record the following information each month for emissions units R001, R002, R003 and R004:
    - a. The name and identification number of each coating, cleaning, wash-off and gluing material employed. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.



- b. The volume, in gallons, of each coating, cleaning, wash-off and gluing material employed.
  - c. The VOC content of each coating, cleaning, wash-off and gluing material, in pounds of VOC per gallon, as applied.
  - d. The amount of VOC emitted for all coating, cleaning, wash-off and gluing materials employed, in pounds per month (b x c).
  - e. The rolling, 12-month\* usage for coating, cleaning, wash-off and gluing materials, in gallons.
  - f. The rolling, 12-month\* VOC emission rate in tons per year (in tons, rounded off to one decimal place).
- \*A rolling, 12-month period includes the previous set of 12 calendar months.
- g. Monthly records shall be completed within 15 days following the end of each calendar month and shall include the updated rolling, 12-month VOC emission rate.

The records shall be maintained for five years, and upon request the permittee shall submit such records to the appropriate Ohio EPA District Office or local air agency.

- (3) The permittee shall maintain for this facility all purchase orders and invoices of VOC-containing materials. The permittee shall retain such purchase orders and invoices for at least five years from the date of issuance. Upon request, the permittee shall make available to the Director of the Ohio EPA, or an authorized representative of the Director, such purchase orders and invoices for use in confirming the general accuracy of the records maintained and the reports submitted regarding material usage.
- (4) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (5) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (6) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.



- (7) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
- a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and
  - d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (8) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

- (9) See Section B.3. of this permit.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness 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.
- (3) If the facility (emissions units R001-R004) has a rolling, 12-month record that exceeds 24.9 tons of VOC from combined operations associated with the manufacture of wood furniture, or wood furniture components, the permittee shall submit the following:
- a. Within 30 days after the end of that rolling, 12-month period in which the exceedance occurred, a notification to the Southwest Ohio Air Quality Agency that the VOC emissions limit was exceeded.
  - b. Within three months after the end of that rolling, 12-month period in which the exceedance occurred, a compliance plan shall be sent to the Southwest Ohio Air Quality Agency to comply with the presumptive RACT standards specified within USEPA document EPA-453/R-96-007 "Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations" (April 1996). Any divergence from the presumptive RACT standards and the model rule provided within that document shall be described at the time of the submittal of the 3-month compliance plan. Compliance with the presumptive RACT standards is to



be achieved within 12 months after the rolling, 12-month period exceedance, unless otherwise requested by the permittee and approved by USEPA as a revision to Ohio's state implementation plan for ozone.

- c. Exceeding the 24.9 TPY VOC limit is a violation for each day of the last month of each 12 month period in which the 24.9 TPY limit is exceeded, regardless of whether a compliance plan is submitted.

- (4) See Section B.4. 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:

Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(2).

- (2) OAC rule 3745-21-10(B) shall be used to determine the VOC contents of the coating, cleaning, wash-off and gluing materials employed in this emissions unit. If, pursuant to 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, cleaning, wash-off or gluing material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for the coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- (3) See Section B.5. of this permit.

g) Miscellaneous Requirements

- (1) This Federally Enforceable Permit limits the potential emission of volatile organic compounds from the wood furniture finishing processes and associated cleaning, wash-off and gluing processes located at this facility to no more than 24.9 TPY during any rolling, 12-month period. Should VOC emissions from the wood finishing processes and associated cleaning, wash-off and gluing processes exceed 24.9 TPY during any rolling 12-month period, this facility should notify the Southwest Ohio Air Quality Agency within 30 days. See e)(2).



**3. R002, Conveyor Line Coating Booth**

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

Wood coating line and associated cleaning, washoff and gluing operations

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. d)(9).
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. b)(1)b., b)(2)a., c)(1), c)(2), d)(1), d)(2), d)(3), e)(3), f)(1) and g)(1).
- 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)	Volatile Organic Compound (VOC) emissions from coatings shall not exceed 12.98 pounds per hour.  See terms b)(1)b., b)(2)b. b)(2)c., b)(2)e., c)(1) and c)(2).  The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 3745-17-11(C).
b.	OAC rule 3745-31-05(D)	Volatile Organic Compound (VOC) emissions from emissions unit R002 shall not exceed 8.52 TPY based on a rolling 12-month summation.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.  See b)(2)a. and section B.2.
c.	OAC rule 3745-17-11(C)	See b)(2)e., c)(3), d)(4) through d)(8)
d.	OAC rule 3745-21-15	Exempt, see b)(1)a.

(2) Additional Terms and Conditions

- a. The total allowable volatile organic compound (VOC) emissions from all the wood finishing processes and associated cleaning, wash-off and gluing processes located at this facility shall not exceed 24.9 TPY based on a rolling, 12-month summation. "Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.
- b. The VOC content, as applied, of each coating employed in this emissions unit shall not exceed 6.49 pounds of VOC per gallon, as applied.
- c. The VOC content of each cleanup material employed in this emissions unit shall not exceed 6.58 pounds of VOC per gallon.
- d. The hourly emissions limitation outlined above is based upon the emissions unit's potential to (PTE). Therefore, no hourly records are required to demonstrate compliance with this limit.
- e. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
- f. See Section B.2. of this permit.

c) Operational Restrictions

- (1) The maximum annual coating usage for this emissions unit shall not exceed 2500 gallons, excluding water, based upon a rolling, 12-month summation of the coating usage figures.



- (2) The maximum annual cleanup material usage shall not exceed 125 gallons, based upon a rolling, 12-month summation of the cleanup material usage figures.
- (3) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

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

- (1) The permittee shall collect and record the following information for the purpose of determining annual VOC emissions for emissions unit R002:
  - a. The company identification for each coating and cleanup material employed.
  - b. The rolling, 12-month summation of coating material usage figures, in gallons.
  - c. The rolling, 12-month summation of cleanup material usage figures, in gallons.
  - d. The volatile organic compound content of each coating employed, excluding water and exempt solvents in pounds per gallon.
  - e. The volatile organic compound content of each cleanup material employed in pounds per gallon.
  - f. The rolling, 12-month summation of the total combined VOC emissions from all coatings and cleanup materials employed, in pounds or tons.

[Note: The coating information must be for the coatings employed, including any thinning solvents added at the emissions unit.]

- (2) The permittee shall collect and record the following information each month for emissions units R001, R002, R003 and R004:
  - a. The name and identification number of each coating, cleaning, wash-off and gluing material employed. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.
  - b. The volume, in gallons, of each coating, cleaning, wash-off and gluing material employed.
  - c. The VOC content of each coating, cleaning, wash-off and gluing material, in pounds of VOC per gallon, as applied.



- d. The amount of VOC emitted for all coating, cleaning, wash-off and gluing materials employed, in pounds per month (b x c).
- e. The rolling, 12-month\* usage for coating, cleaning, wash-off and gluing materials, in gallons.
- f. The rolling, 12-month\* VOC emission rate in tons per year (in tons, rounded off to one decimal place).

\*A rolling, 12-month period includes the previous set of 12 calendar months.

- g. Monthly records shall be completed within 15 days following the end of each calendar month and shall include the updated rolling, 12-month VOC emission rate.

The records shall be maintained for five years, and upon request the permittee shall submit such records to the appropriate Ohio EPA District Office or local air agency.

- (3) The permittee shall maintain for this facility all purchase orders and invoices of VOC-containing materials. The permittee shall retain such purchase orders and invoices for at least five years from the date of issuance. Upon request, the permittee shall make available to the Director of the Ohio EPA, or an authorized representative of the Director, such purchase orders and invoices for use in confirming the general accuracy of the records maintained and the reports submitted regarding material usage.
- (4) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (5) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (6) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (7) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
  - a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and



d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (8) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- (9) The permit to install and operate (PTIO) for this emissions unit R002 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN3 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN3 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Cyclohexanone

TLV (ug/m3): 100,300

Maximum Hourly Emission Rate (lbs/hr): 6.02

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 430

MAGLC (ug/m3): 2388

Pollutant: Methanol

TLV (ug/m3): 262,000

Maximum Hourly Emission Rate (lbs/hr): 29.61

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1921

MAGLC (ug/m3): 6238

Pollutant: 2-Methyl 1- Propanol

TLV (ug/m3): 152,000

Maximum Hourly Emission Rate (lbs/hr): 8.4



Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 545

MAGLC (ug/m3): 3619

Pollutant: Formaldehyde

TLV (ug/m3): 272

Maximum Hourly Emission Rate (lbs/hr): 0.077

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 5.0

MAGLC (ug/m3): 6.5

Pollutant: 1- Butanol

TLV (ug/m3): 60,600

Maximum Hourly Emission Rate (lbs/hr): 3.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 227

MAGLC (ug/m3): 1443

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

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



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

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.
- \* This is the minimum TLV value for any contaminant that passes the toxic screening analysis. Prior to employing any material with a TLV less than this number, the permittee shall conduct an evaluation to determine if the new material will satisfy the "Air Toxics Policy."

(10) See Section B.3. of this permit.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness 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.
- (3) If the facility (emissions units R001-R004) has a rolling, 12-month record that exceeds 24.9 tons of VOC from combined operations associated with the manufacture of wood furniture, or wood furniture components, the permittee shall submit the following:
  - a. Within 30 days after the end of that rolling, 12-month period in which the exceedance occurred, a notification to the Southwest Ohio Air Quality Agency that the VOC emissions limit was exceeded.



- b. Within three months after the end of that rolling, 12-month period in which the exceedance occurred, a compliance plan shall be sent to the Southwest Ohio Air Quality Agency to comply with the presumptive RACT standards specified within USEPA document EPA-453/R-96-007 "Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations" (April 1996). Any divergence from the presumptive RACT standards and the model rule provided within that document shall be described at the time of the submittal of the 3-month compliance plan. Compliance with the presumptive RACT standards is to be achieved within 12 months after the rolling, 12-month period exceedance, unless otherwise requested by the permittee and approved by USEPA as a revision to Ohio's state implementation plan for ozone.
  - c. Exceeding the 24.9 TPY VOC limit is a violation for each day of the last month of each 12 month period in which the 24.9 TPY limit is exceeded, regardless of whether a compliance plan is submitted.
- (4) See Section B.4. 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:

Volatile Organic Compound (VOC) emissions from emissions unit R002 shall not exceed 8.52 TPY based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(1).
    - b. Emission Limitation:

Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(2).
  - (2) Compliance with the usage limitations in c)(1) and c)(2) shall be demonstrated by the recordkeeping in d)(1).



- (3) OAC rule 3745-21-10(B) shall be used to determine the VOC contents of the coating, cleaning, wash-off and gluing materials employed in this emissions unit. If, pursuant to 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, cleaning, wash-off or gluing material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for the coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.
  - (4) See Section B.5. of this permit.
- g) Miscellaneous Requirements
- (1) This Federally Enforceable Permit limits the potential emission of volatile organic compounds from the wood furniture finishing processes and associated cleaning, wash-off and gluing processes located at this facility to no more than 24.9 TPY during any rolling, 12-month period. Should VOC emissions from the wood finishing processes and associated cleaning, wash-off and gluing processes exceed 24.9 TPY during any rolling 12-month period, this facility should notify the Southwest Ohio Air Quality Agency within 30 days. See e)(2).



**4. R003, Line Sprayer**

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

Wood coating line and associated cleaning, washoff and gluing operations

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. d)(9).
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. b)(1)b., b)(2)a., c)(1), c)(2), d)(1), d)(2), d)(3), e)(3), f)(1) and g)(1).
- 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)	Volatile Organic Compound (VOC) emissions from coatings shall not exceed 32.45 pounds per hour.  See terms b)(2)b. b)(2)c., b)(2)e., c)(1) and c)(2).  The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 3745-17-11(C).
b.	OAC rule 3745-31-05(D)	Volatile Organic Compound (VOC) emissions from emissions unit R003 shall not exceed 9.49 TPY based on a rolling 12-month summation.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.  See b)(2)a. and section B.2.
c.	OAC rule 3745-17-11(C)	See b)(2)e., c)(3), d)(4) through d)(8)
d.	OAC rule 3745-21-15	Exempt, see b)(1)a.

(2) Additional Terms and Conditions

- a. The total allowable volatile organic compound (VOC) emissions from all the wood finishing processes and associated cleaning, wash-off and gluing processes located at this facility shall not exceed 24.9 TPY based on a rolling, 12-month summation. "Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.
- b. The VOC content, as applied, of each coating employed in this emissions unit shall not exceed 6.49 pounds of VOC per gallon, as applied.
- c. The VOC content of each cleanup material employed in this emissions unit shall not exceed 6.58 pounds of VOC per gallon.
- d. The hourly emissions limitation outlined above is based upon the emissions unit's potential to (PTE). Therefore, no hourly records are required to demonstrate compliance with this limit.
- e. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
- f. See Section B.2. of this permit.

c) Operational Restrictions

- (1) The maximum annual coating usage for this emissions unit shall not exceed 2500 gallons, excluding water, based upon a rolling, 12-month summation of the coating usage figures.



- (2) The maximum annual cleanup material usage shall not exceed 420 gallons, based upon a rolling, 12-month summation of the cleanup material usage figures.
- (3) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

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

- (1) The permittee shall collect and record the following information for the purpose of determining annual VOC emissions for emissions unit R003:
  - a. The company identification for each coating and cleanup material employed.
  - b. The rolling, 12-month summation of coating material usage figures, in gallons.
  - c. The rolling, 12-month summation of cleanup material usage figures, in gallons.
  - d. The volatile organic compound content of each coating employed, excluding water and exempt solvents in pounds per gallon.
  - e. The volatile organic compound content of each cleanup material employed in pounds per gallon.
  - f. The rolling, 12-month summation of the total combined VOC emissions from all coatings and cleanup materials employed, in pounds or tons.

[Note: The coating information must be for the coatings employed, including any thinning solvents added at the emissions unit.]

- (2) The permittee shall collect and record the following information each month for emissions units R001, R002, R003 and R004:
  - a. The name and identification number of each coating, cleaning, wash-off and gluing material employed. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.
  - b. The volume, in gallons, of each coating, cleaning, wash-off and gluing material employed.
  - c. The VOC content of each coating, cleaning, wash-off and gluing material, in pounds of VOC per gallon, as applied.



- d. The amount of VOC emitted for all coating, cleaning, wash-off and gluing materials employed, in pounds per month (b x c).
- e. The rolling, 12-month\* usage for coating, cleaning, wash-off and gluing materials, in gallons.
- f. The rolling, 12-month\* VOC emission rate in tons per year (in tons, rounded off to one decimal place).

\*A rolling, 12-month period includes the previous set of 12 calendar months.

- g. Monthly records shall be completed within 15 days following the end of each calendar month and shall include the updated rolling, 12-month VOC emission rate.

The records shall be maintained for five years, and upon request the permittee shall submit such records to the appropriate Ohio EPA District Office or local air agency.

- (3) The permittee shall maintain for this facility all purchase orders and invoices of VOC-containing materials. The permittee shall retain such purchase orders and invoices for at least five years from the date of issuance. Upon request, the permittee shall make available to the Director of the Ohio EPA, or an authorized representative of the Director, such purchase orders and invoices for use in confirming the general accuracy of the records maintained and the reports submitted regarding material usage.
- (4) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (5) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (6) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (7) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
  - a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and



d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (8) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- (9) The permit to install and operate (PTIO) for this emissions unit R003 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN3 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN3 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Cyclohexanone

TLV (ug/m3): 100,300

Maximum Hourly Emission Rate (lbs/hr): 6.02

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 430

MAGLC (ug/m3): 2388

Pollutant: Methanol

TLV (ug/m3): 262,000

Maximum Hourly Emission Rate (lbs/hr): 29.61

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1921

MAGLC (ug/m3): 6238

Pollutant: 2-Methyl 1- Propanol

TLV (ug/m3): 152,000

Maximum Hourly Emission Rate (lbs/hr): 8.4



Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 545

MAGLC (ug/m3): 3619

Pollutant: Formaldehyde

TLV (ug/m3): 272

Maximum Hourly Emission Rate (lbs/hr): 0.077

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 5.0

MAGLC (ug/m3): 6.5

Pollutant: 1- Butanol

TLV (ug/m3): 60,600

Maximum Hourly Emission Rate (lbs/hr): 3.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 227

MAGLC (ug/m3): 1443

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

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



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

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
  - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.
- \* This is the minimum TLV value for any contaminant that passes the toxic screening analysis. Prior to employing any material with a TLV less than this number, the permittee shall conduct an evaluation to determine if the new material will satisfy the "Air Toxics Policy."

(10) See Section B.3. of this permit.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness 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.
- (3) If the facility (emissions units R001-R004) has a rolling, 12-month record that exceeds 24.9 tons of VOC from combined operations associated with the manufacture of wood furniture, or wood furniture components, the permittee shall submit the following:
  - a. Within 30 days after the end of that rolling, 12-month period in which the exceedance occurred, a notification to the Southwest Ohio Air Quality Agency that the VOC emissions limit was exceeded.



- b. Within three months after the end of that rolling, 12-month period in which the exceedance occurred, a compliance plan shall be sent to the Southwest Ohio Air Quality Agency to comply with the presumptive RACT standards specified within USEPA document EPA-453/R-96-007 "Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations" (April 1996). Any divergence from the presumptive RACT standards and the model rule provided within that document shall be described at the time of the submittal of the 3-month compliance plan. Compliance with the presumptive RACT standards is to be achieved within 12 months after the rolling, 12-month period exceedance, unless otherwise requested by the permittee and approved by USEPA as a revision to Ohio's state implementation plan for ozone.
  - c. Exceeding the 24.9 TPY VOC limit is a violation for each day of the last month of each 12 month period in which the 24.9 TPY limit is exceeded, regardless of whether a compliance plan is submitted.
- (4) See Section B.4. 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:

Volatile Organic Compound (VOC) emissions from emissions unit R003 shall not exceed 9.49 TPY based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(1).
    - b. Emission Limitation:

Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(2).
  - (2) Compliance with the usage limitations in c)(1) and c)(2) shall be demonstrated by the recordkeeping in d)(1).
  - (3) OAC rule 3745-21-10(B) shall be used to determine the VOC contents of the coating, cleaning, wash-off and gluing materials employed in this emissions unit. If, pursuant to 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, cleaning, wash-off or gluing material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data



for the coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- (4) See Section B.5. of this permit.
- g) Miscellaneous Requirements
- (1) This Federally Enforceable Permit limits the potential emission of volatile organic compounds from the wood furniture finishing processes and associated cleaning, wash-off and gluing processes located at this facility to no more than 24.9 TPY during any rolling, 12-month period. Should VOC emissions from the wood finishing processes and associated cleaning, wash-off and gluing processes exceed 24.9 TPY during any rolling 12-month period, this facility should notify the Southwest Ohio Air Quality Agency within 30 days. See e)(2).



5. R004, Spray Booth

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

Wood coating line and associated cleaning, wash-off and gluing operations

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)a., b)(2)a., d)(2), d)(3), e)(3), f)(1) and g)(1).

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(D)	<p>Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.</p> <p>See b)(2)a. and section B.2.</p>
b.	OAC rule 3745-17-11(C)	See b)(2)b., c)(1), d)(4) through d)(8)
c.	OAC rule 3745-21-15	Exempt, see b)(1)a.

(2) Additional Terms and Conditions

a. The total allowable volatile organic compound (VOC) emissions from all the wood finishing processes and associated cleaning, wash-off and gluing processes located at this facility shall not exceed 24.9 TPY based on a rolling, 12-month summation. "Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and



temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

- b. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
- c. See Section B.2. of this permit.
- c) Operational Restrictions
  - (1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall collect and record the following information for the purpose of determining annual VOC emissions for emissions unit R004:
    - a. The company identification for each coating and cleanup material employed.
    - b. The number of gallons of each coating and cleanup material employed.
    - c. The volatile organic compound content of each coating and cleanup material, in pounds per gallon.
    - d. The total organic compound emission rate for all coating and cleanup materials, in tons.
    - e. The annual VOC emissions rate for this emissions unit in tons per year. This shall be determined by summing the records in term c)(1)d. for the calendar year.
  - (2) The permittee shall collect and record the following information each month for emissions units R001, R002, R003 and R004:
    - a. The name and identification number of each coating, cleaning, wash-off and gluing material employed. Such materials include, but are not limited to paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks and temporary protective coatings. "Cleaning material" means organic solvent used to remove coating materials from equipment used in wood furniture manufacturing operations. "Wash-off material" means organic solvent used to remove coating from a substrate. "Gluing material" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.



- b. The volume, in gallons, of each coating, cleaning, wash-off and gluing material employed.
- c. The VOC content of each coating, cleaning, wash-off and gluing material, in pounds of VOC per gallon, as applied.
- d. The amount of VOC emitted for all coating, cleaning, wash-off and gluing materials employed, in pounds per month (b x c).
- e. The rolling, 12-month\* usage for coating, cleaning, wash-off and gluing materials, in gallons.
- f. The rolling, 12-month\* VOC emission rate in tons per year (in tons, rounded off to one decimal place).

\*A rolling, 12-month period includes the previous set of 12 calendar months.

- g. Monthly records shall be completed within 15 days following the end of each calendar month and shall include the updated rolling, 12-month VOC emission rate.

The records shall be maintained for five years, and upon request the permittee shall submit such records to the appropriate Ohio EPA District Office or local air agency.

- (3) The permittee shall maintain for this facility all purchase orders and invoices of VOC-containing materials. The permittee shall retain such purchase orders and invoices for at least five years from the date of issuance. Upon request, the permittee shall make available to the Director of the Ohio EPA, or an authorized representative of the Director, such purchase orders and invoices for use in confirming the general accuracy of the records maintained and the reports submitted regarding material usage.
- (4) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (5) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (6) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.



- (7) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
- a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and
  - d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (8) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

- (9) See Section B.3. of this permit.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness 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.
- (3) If the facility (emissions units R001-R004) has a rolling, 12-month record that exceeds 24.9 tons of VOC from combined operations associated with the manufacture of wood furniture, or wood furniture components, the permittee shall submit the following:
  - a. Within 30 days after the end of that rolling, 12-month period in which the exceedance occurred, a notification to the Southwest Ohio Air Quality Agency that the VOC emissions limit was exceeded.
  - b. Within three months after the end of that rolling, 12-month period in which the exceedance occurred, a compliance plan shall be sent to the Southwest Ohio Air Quality Agency to comply with the presumptive RACT standards specified within USEPA document EPA-453/R-96-007 "Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations" (April 1996). Any divergence from the presumptive RACT standards and the model rule provided within that document shall be described at the time of the submittal of the 3-month compliance plan. Compliance with the presumptive RACT standards is to



be achieved within 12 months after the rolling, 12-month period exceedance, unless otherwise requested by the permittee and approved by USEPA as a revision to Ohio's state implementation plan for ozone.

- c. Exceeding the 24.9 TPY VOC limit is a violation for each day of the last month of each 12 month period in which the 24.9 TPY limit is exceeded, regardless of whether a compliance plan is submitted.

(4) See Section B.4. 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:

Volatile Organic Compound (VOC) emissions shall not exceed 24.9 TPY from emissions units R001, R002, R003 and R004, combined, based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in d)(2).

- (2) OAC rule 3745-21-10(B) shall be used to determine the VOC contents of the coating, cleaning, wash-off and gluing materials employed in this emissions unit. If, pursuant to 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, cleaning, wash-off or gluing material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for the coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

(3) See Section B.5. of this permit.

g) Miscellaneous Requirements

- (1) This Federally Enforceable Permit limits the potential emission of volatile organic compounds from the wood furniture finishing processes and associated cleaning, wash-off and gluing processes located at this facility to no more than 24.9 TPY during any rolling, 12-month period. Should VOC emissions from the wood finishing processes and associated cleaning, wash-off and gluing processes exceed 24.9 TPY during any rolling 12-month period, this facility should notify the Southwest Ohio Air Quality Agency within 30 days. See e)(2).