



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
HAMILTON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05425

DATE: 7/24/2003

Custom Railing and Wood Products
Steve Bunnell
10722 New Haven Drive
Harrison, OH 45030

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 7/24/2003
Effective Date: 7/24/2003**

FINAL PERMIT TO INSTALL 14-05425

Application Number: 14-05425
APS Premise Number: 1431234142
Permit Fee: **\$800**
Name of Facility: Custom Railing and Wood Products
Person to Contact: Steve Bunnell
Address: 10722 New Haven Drive
Harrison, OH 45030

Location of proposed air contaminant source(s) [emissions unit(s)]:
**10722 New Haven Drive
Harrison, Ohio**

Description of proposed emissions unit(s):
manual application of wood stain, woodworking operations, paint spray booth for wood products, wood coating line.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM-10	10.51
OC	24.38

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - woodworking operations	OAC rule 3745-31-05(A)(3)	2.4 lbs/hr PM/PM-10; 10.51 tons/yr PM/PM-10 Visible particulate emissions of fugitive dust shall not exceed (0%) zero percent opacity, as a three minute average, except as specified by rule. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	See term B.2 Visible particulate emissions from any stack shall not exceed twenty percent (20%) opacity, as a six minute average, except as specified by rule.
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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Emissions Unit ID: **F001**

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A) shall be demonstrated by the use of a fabric filter which is at least 99% efficient, to control particulate emissions, and venting the woodwaste bin to the baghouse.
- 2.b The hourly emission limitation outlined is based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.
- 2. The permittee shall continue to vent the woodwaste bin to the baghouse in order to ensure that no fugitive particulate emissions are emitted to the ambient air.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- 2. The permittee shall maintain monthly records of the amount of woodwaste collected from the baghouse and transferred to the waste bin.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in term B.1. If no exceedances occurred during the reporting period then a report is required stating so.
- 2. The permittee shall submit annual reports that identify any exceedances of the annual PM/PM-10 limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

2.4 lbs/hr PM/PM-10; 10.51 tons/yr PM/PM-10

Applicable Compliance Method:

Particulate emissions shall be calculated and compliance with the particulate emission limitations shall be determined using the following equations:

$$\text{lbs/hr PM/PM-10} = A \times C$$

$$\text{tons/yr PM/PM-10} = B \times C$$

where,

A = lbs/hr wood waste vented to baghouse

B = tons/yr wood waste vented to baghouse

C = control efficiency of baghouse, assumed to be 99%

If testing is required to determine compliance with the with the particulate emission limitation, then testing shall be conducted using the following method: Method 5 of 40 CFR, Part 60, Appendix A.

2. Emission Limitation:

20% opacity, as a six minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

3. Emission Limitation:

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0% opacity, as a three-minute average, for fugitive emissions

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

4. Compliance with the pressure drop limitation in Term B.1 shall be demonstrated by the recordkeeping in Term C.1.

F. Miscellaneous Requirements

none

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R001 - manual application of wood stain	OAC rule 3745-31-05(A)(3) OAC rule 3745-21-07(G)	14.28 lbs OC/day, 2.56 tons OC/yr See terms A.2.a and B.2 Exempt, see term B.1

2. Additional Terms and Conditions

- 2.a The OC content of coatings employed in this emissions unit, as applied, shall not exceed 5.95 lbs/gal. The OC content of the cleanup materials employed in this emissions unit shall not exceed 6.22 lbs/gal.
- 2.b Compliance with OAC rule 3745-31-05(A) shall be demonstrated by OC content and usage limitations for coatings and cleanup materials, use of non-photochemically reactive materials, and compliance with the Air Toxics Policy.

B. Operational Restrictions

1. The use of photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) is prohibited.
2. The total annual usage of coatings in this emissions unit shall not exceed 750 gallons. The total annual usage of cleanup materials in this emissions unit shall not exceed 100 gallons.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. the company identification of each liquid organic material employed in this emissions unit; and
 - b. a record of each liquid organic material employed in this emissions unit indicating, whether or not the liquid organic material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information for each day for the coating operation:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day (b x c).

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

3. The permit to install for this emissions unit (R001), was evaluated based on the actual materials (typically coatings and cleanup 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 for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: 2-butoxyethanol

TLV (mg/m³): 121,000

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Emissions Unit ID: R001

Maximum Hourly Emission Rate (lbs/hr): 0.15

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 18.7

MAGLC (ug/m3): 1729

Physical changes to or 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 Toxics 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 the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- 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 with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will 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 its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the 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.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the

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PTI A

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Emissions Unit ID: **R001**

use of the photochemically reactive material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

2. The permittee shall submit deviation (excursion) reports which include the following information:

An identification of each day during which the total organic compound emissions exceeded 14.28 pounds per day, and the actual organic compound emissions for each such day. If no exceedances occurred during the reporting period then a report is required stating so.
3. The permittee shall submit annual reports which identify any exceedances of the annual coating and cleanup material usage limitations in term B.2, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedances of the OC content limitations for coating and cleanup material, as well as the corrective actions that were taken to achieve compliance. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

14.28 lbs/day

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.
2. Emission Limitation:

Coating and cleanup materials usage limitations specified in term B.2.

Applicable Compliance Method:

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Emissions Unit ID: **R001**

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.

3. Emission Limitation:

Coating and cleanup materials OC content limitations specified in term A.2.a

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the OC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

4. Emission Limitation:

The prohibition on the use of photochemically reactive material

Applicable Compliance Method:

Compliance shall be determined by the record keeping in term C.1.

F. Miscellaneous Requirements

none

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R002 - paint spray booth for wood	OAC rule 3745-31-05(A)(3)	135.44 lbs OC/day, 10.91 tons OC/yr See terms A.2.a and B.2.
	OAC rule 3745-21-07	Exempt, see term B.1

2. Additional Terms and Conditions

- The OC content of the clear coatings employed in this emissions unit, as applied, shall not exceed 6.15 lbs/gal. The OC content of the white coatings employed in this emissions unit, as applied, shall not exceed 4.93 lbs/gal. The OC content of the cleanup materials employed in this emissions unit shall not exceed 6.22 lbs/gal.
- Compliance with OAC rule 3745-31-05(A) shall be demonstrated by OC content and usage limitations for coatings and cleanup materials, use of non-photochemically reactive materials, and compliance with the Air Toxics Policy.

B. Operational Restrictions

- The use of photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) is prohibited.
- The total annual usage of clear coatings in this emissions unit shall not exceed 1800 gallons. The total annual usage of white coatings in this emissions unit shall not exceed 1800 gallons. The total annual usage of cleanup materials in this emissions unit shall not exceed 300 gallons.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. the company identification of each liquid organic material employed in this emissions unit; and
 - b. a record of each liquid organic material employed in this emissions unit indicating, whether or not the liquid organic material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information for each day for the coating operation:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day (b x c).

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

3. The permit to install for this emissions unit (R002) was evaluated based on the actual materials (typically coatings and cleanup 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 for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: 2-butoxyethanol

TLV (ug/m3): 121,000

Maximum Hourly Emission Rate (lbs/hr): 0.37

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 16.5

MAGLC (ug/m3): 1729

Physical changes to or 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 Toxics 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 the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- 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 with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

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- b. documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the 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.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

2. The permittee shall submit deviation (excursion) reports which include the following information:

An identification of each day during which the total organic compound emissions exceeded 135.44 pounds per day, and the actual organic compound emissions for each such day. If no exceedances occurred during the reporting period then a report is required stating so.
3. The permittee shall submit annual reports which identify any exceedances of the annual coating and cleanup material usage limitations in term B.2, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedances of the OC content limitations for coating and cleanup material, as well as the corrective actions that were taken to achieve compliance. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

135.44 lbs/day

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.
2. Emission Limitation:

Coating and cleanup materials usage limitations specified in term B.2

Applicable Compliance Method:

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PTI A

Issued: 7/24/2003

Emissions Unit ID: **R002**

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.

3. Emission Limitation:

Coating and cleanup materials OC content limitations specified in term A.2.a

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the OC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

4. Emission Limitation:

The prohibition on the use of photochemically reactive material

Applicable Compliance Method:

Compliance shall be determined by the record keeping in term C.1.

F. Miscellaneous Requirements

none

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R003 - coating line for wood products	OAC rule 3745-31-05(A)(3)	135.44 lbs OC/day, 10.91 tons OC/yr
	OAC rule 3745-21-07	See terms A.2.a and B.2 Exempt, see Term B.1

2. Additional Terms and Conditions

- 2.a The OC content of the clear coatings employed in this emissions unit, as applied, shall not exceed 6.15 lbs/gal. The OC content of the white coatings employed in this emissions unit, as applied, shall not exceed 4.93 lbs/gal. The OC content of the cleanup materials employed in this emissions unit shall not exceed 6.22 lbs/gal.
- 2.b Compliance with OAC rule 3745-31-05(A) shall be demonstrated by OC content and usage limitations for coatings and cleanup materials, use of non-photochemically reactive materials, and compliance with the Air Toxics Policy.

B. Operational Restrictions

1. The use of photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) is prohibited.
2. The total annual usage of clear coatings in this emissions unit shall not exceed 1800 gallons. The total annual usage of white coatings in this emissions unit shall not exceed 1800 gallons. The total annual usage of cleanup materials in this emissions unit shall not exceed 300 gallons.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month:
 - a. the company identification of each liquid organic material employed in this emissions unit; and
 - b. a record of each liquid organic material employed in this emissions unit indicating, whether or not the liquid organic material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information for each day for the coating operation:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon.
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day (b x c).

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

3. The permit to install for this emissions unit (R002) was evaluated based on the actual materials (typically coatings and cleanup 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 for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: 2-butoxyethanol

TLV (ug/m3): 121,000

Maximum Hourly Emission Rate (lbs/hr): 0.37

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 16.5

MAGLC (ug/m3): 1729

Physical changes to or 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 Toxics 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 the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- 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 with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will 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 it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the 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.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which include the following information:

An identification of each day during which the total organic compound emissions exceeded 135.44 pounds per day, and the actual organic compound emissions for each such day. If no exceedances occurred during the reporting period then a report is required stating so.
3. The permittee shall submit annual reports which identify any exceedances of the annual coating and cleanup material usage limitations in term B.2, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedances of the OC content limitations for coating and cleanup material, as well as the corrective actions that were taken to achieve compliance. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

135.44 lbs/day

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.

2. Emission Limitation:

Coating and cleanup materials usage limitations specified in term B.2

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping requirements contained in term C.2 of these terms and conditions.

Custom Railing and Wood Products

PTI Application: 14-05425

Issued

Facility ID: 1431234142

Emissions Unit ID: R003

3. Emission Limitation:

Coating and cleanup materials OC content limitations specified in term A.2.a

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the OC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

4. Emission Limitation:

The prohibition on the use of photochemically reactive material

Applicable Compliance Method:

Compliance shall be determined by the record keeping in term C.1.

F. Miscellaneous Requirements

none