OhioEPA

State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

**TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL**
**GREENE COUNTY**
**Application No: 08-04230**

**CERTIFIED MAIL**

| | |
|---|---|
| | **TOXIC REVIEW** |
| | **PSD** |
| | **SYNTHETIC MINOR** |
| | **CEMS** |
| | **MACT** |
| | **NSPS** |
| | **NESHAPS** |
| | **NETTING** |
| | **MAJOR NON-ATTAINMENT** |
| | **MODELING SUBMITTED** |
| | **GASOLINE DISPENSING FACILITY** |

**DATE: 12/12/2000**

Wades Woodworking Inc
Wade Smith
2224 Hillrise Cir
Bellbrook, OH 45305-0000

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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

**CC: USEPA** **RAPCA**

# FINAL PERMIT TO INSTALL 08-04230

| | |
|---|---|
| Application Number: | 08-04230 |
| APS Premise Number: | 0829100598 |
| Permit Fee: | **$200** |
| Name of Facility: | Wades Woodworking Inc |
| Person to Contact: | Wade Smith |
| Address: | 2224 Hillrise Cir<br>Bellbrook, OH 45305-0000 |

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1427 Bellbrook Rd**
**Xenia**, **Ohio**

Description of proposed emissions unit(s):
**spray booth.**

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 Related to Monitoring and Recordkeeping 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 are inadequate 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 prove to be inadequate 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**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**

| Pollutant | Tons Per Year |
|---|---|
| VOC | 4.50 |

## 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.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| K001 - Spray booth | OAC rule 3745-31-05 (A)(3) | 4.33 lbs/hr, 34.72 lbs/day, 4.50 TPY of volatile organic compounds, including cleanup. |
| | OAC rule 3745-21-07 (G)(2) | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). |

**2. Additional Terms and Conditions**

**2.a** None

### B. Operational Restrictions

None

### C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information for each month 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 month.


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e. The total number of days the emission unit was in operation.

f. The average hourly organic compound emission rate for all coatings and cleanup, i.e., (d)/(e) in pounds per day (average).

2. The permit to install for this emissions unit 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 Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: **Toluene**

TLV (mg/m3): 188

Maximum Hourly Emission Rate (lbs/hr): 0.76

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3):35.42

MAGLC (ug/m3): 4,490

Pollutant: **Hexane**

TLV (mg/m3): 434

Maximum Hourly Emission Rate (lbs/hr): 1.00

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 46.49

MAGLC (ug/m3): 10,337

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 (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


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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 for 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 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 its 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.

## D. Reporting Requirements

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

   a. An identification of each hour during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 2.3 pounds per hour, and the actual organic compound emissions for each such hour.

   b. An identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 18.46 pounds per day, and the actual organic compound emissions for each such day.

2. The permittee shall submit deviation (excursion) reports in accordance with paragraph A.2. of the General Terms and Conditions of this permit.

## E. Testing Requirements


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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):

   1.a. Emission Limitation-
   4.33 lbs VOC/hr

   Applicable Compliance Method-
   Compliance shall be based upon the record keeping specified in Section C.1.

   1.b. Emission Limitation-
   34.72 lbs/day

   Applicable Compliance Method-
   Compliance shall be based upon the record keeping specified in Section C.1.

   1.c. Emission Limitation-
   4.50 tons VOC/yr

   Applicable Compliance Method-
   Compliance shall be based upon the record keeping specified in Section C.1. and shall be the sum of the daily organic compound emission rates for the calendar year divided by 2,000 lbs/ton.

2.. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the coatings and cleanup materials.

## F. Miscellaneous Requirements

None



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# NEW SOURCE REVIEW FORM B

PTI Number: 08-04230 Facility ID: 0829100598

FACILITY NAME Wades Woodworking Inc

FACILITY DESCRIPTION spray booth. CITY/TWP Xenia

SIC CODE 2541 SCC CODE 4-02-001-01 EMISSIONS UNIT ID K001

EMISSIONS UNIT DESCRIPTION Spray booth

DATE INSTALLED Waiting on issuance of PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | | | | | |
| $PM_{10}$ | | | | | |
| Sulfur Dioxide | | | | | |
| Organic Compounds | | 4.33 | 4.50 | 4.33 lbs/hr | 4.50 |
| Nitrogen Oxides | | | | | |
| Carbon Monoxide | | | | | |
| Lead | | | | | |
| Other: Air Toxics | | | | | |

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** BAT has been determined to be compliance with the applicable regulations and specified allowable emission rates; record keeping and reporting. |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES ____ NO

IDENTIFY THE AIR CONTAMINANTS: Toluene, hexane

# NEW SOURCE REVIEW FORM B

PTI Number: 08-04230 Facility ID: 0829100598

FACILITY NAME Wades Woodworking Inc

FACILITY DESCRIPTION spray booth. CITY/TWP Xenia

**Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us**

| *Please fill out the following. If the checkbox does not work, replace it with an 'X'* | Electronic | Additional information File Name Convention (your PTI # plus this letter) | Hard Copy | None |
|---|---|---|---|---|
| Calculations (required) | ☒ | 0000000c.wpd | ☐ | |
| Modeling form/results | ☐ | 0000000s.wpd | ☒ | ☐ |
| PTI Application (complete or partial)* | ☐ | 0000000a.wpd | ☐ | ☐ |
| BAT Study | ☐ | 0000000b.wpd | ☐ | ☐ |
| Other/misc. | ☐ | 0000000t.wpd | ☐ | ☐ |

*** Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.**

**Please complete (see comment bubble to the left for additional instructions):**

**NSR Discussion**

**Wade's Woodworking, Inc. is located in Greene County. They have requested a permit to install for a spray booth. The booth is used to apply adhesive to wood products .**

**The spray booth uses adhesive, Hybond 56 red. The coating used in this booth contains several HAPS: methyl ethyl ketone, toluene, and hexane. The potential to emit for these chemicals is 1.17 TPY, 3.32 TPY, and 4.38 TPY respectively. None of the HAPs emitted from this source will exceed the individual 10 TPY threshold or the combined 25 TPY threshold. Title V does not apply to this source.**

**The potential to emit for this source is 18.96 TPY for combined VOCs. The allowable emission rates are 4.33 lbs/hr, 34.72 lbs/day, and 4.50 TPY of VOC. All limits include cleanup.**

**BAT has been determined to be compliance with the applicable regulations and specified allowable emission rates; record keeping and reporting.**

**The air toxic screen model was run for toluene and hexane. These were found to be in compliance with Ohio's air toxic policy. The modeling results are included.**

**The applicable regulations are OAC 3745-31-05 (A)(3) and OAC 3745-21-07(G)(2).**

**This permit is recommended for approval.**

**Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):**

**☐ Synthetic Minor Determination and/or ☐ Netting Determination**

**Permit To Install ENTER PTI NUMBER HERE**

# NEW SOURCE REVIEW FORM B

PTI Number: 08-04230 Facility ID: 0829100598

FACILITY NAME Wades Woodworking Inc

FACILITY DESCRIPTION spray booth. CITY/TWP Xenia

**A. Source Description**

**B. Facility Emissions and Attainment Status**

**C. Source Emissions**

**D. Conclusion**

**PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:**

**NONE**

**Please complete:**

## SUMMARY (for informational purposes only)

## TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

| Pollutant | Tons Per Year |
|---|---|
| VOC | 4.50 |