



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: 14-05715

Fac ID: 1431404180

DATE: 5/31/2005

LOTH

Bryan Taulbee
3574 East Kemper Road
Cincinnati, OH 45241

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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 5/31/2005
Effective Date: 5/31/2005**

FINAL PERMIT TO INSTALL 14-05715

Application Number: 14-05715
Facility ID: 1431404180
Permit Fee: **\$200**
Name of Facility: LOTH
Person to Contact: Bryan Taulbee
Address: 3574 East Kemper Road
Cincinnati, OH 45241

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3574 East Kemper Road
Cincinnati, Ohio**

Description of proposed emissions unit(s):
Paint Spray Booth for Metal Furniture.

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

LOTH

PTI Application: 14-05715

Issued: 5/31/2005

Facility ID: 1431404180

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

LOTH

PTI Application: 14-05715

Issued: 5/31/2005

Facility ID: 1431404180

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.

LOTH

PTI Application: 14-05715

Issued: 5/31/2005

Facility ID: 1431404180

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>
VOC	3.22

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>
K001 - Paint Spray Booth for Metal Furniture	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 14.95 pounds per day, excluding cleanup.</p> <p>Volatile organic compound emissions shall not exceed 3.22 tons per year, including cleanup.</p> <p>The requirements of this rule also include compliance with OAC rule 3745-21-09(I)(3)(a) and 40 CFR 60.310(c).</p> <p>See terms and conditions A.2.b., A.2.c., B.1. and B.3.</p>
	OAC rule 3745-21-09(I)(3)(a)	Exempt. VOC emissions limited to less than 15 lbs/day in term and condition A.1 above.
	40 CFR 60 Subpart EE	Exempt. See term and condition B.2.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the VOC content limitations, coating and cleanup material usage limitations and the mass emissions limitations.

- 2.b** The maximum VOC content of each coating employed in this emissions unit shall not exceed 4.53 pounds of VOC per gallon, as applied.
- 2.c** The maximum VOC content of each cleanup material employed in this emissions unit shall not exceed 7.33 pounds of VOC per gallon, as applied.

B. Operational Restrictions

1. The maximum daily coating usage for this emissions unit shall not exceed 3.3 gallons per day (as applied).
2. The maximum annual coating usage shall not exceed 1000 gallons per year (as applied).
3. The maximum annual cleanup material usage for this emissions unit shall not exceed 260 gallons per year.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for all metal furniture coating lines at the facility:
 - a. The name and identification number of each coating, as applied.
 - b. The mass of VOC per volume (excluding water and exempt solvents) and the volume of each coating (excluding water and exempt solvents), as applied.
 - c. The total VOC emissions from the coatings employed, as calculated using the following equation:

$$T = A_1B_1 + A_2B_2 + \dots + A_nB_n$$

where:

T = Total VOC emissions from the combined coating lines before the application of capture systems and control devices, in units of pounds per day;

n = Number of different coatings applied in the coating lines at the facility;

- i = Subscript denoting an individual coating;
- A_i = Mass of VOC per volume of coating (i) (excluding water and exempt solvents), as applied, in units of pounds VOC per gallon; and
- B_i = Volume of coating (i) (excluding water and exempt solvents), as applied, in units of gallons per day.

2. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the name and identification number of each coating;
 - b. the volume, in gallons, of each coating employed (as applied);
 - c. the total volume, in gallons, of all of the coatings employed (as applied);
 - d. the VOC content of each coating employed, in pounds VOC per gallon of coating (as applied); and
 - e. the total daily VOC emissions, in pounds ($b \times d$).
3. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the name and identification number of each cleanup material;
 - b. the volume, in gallons, of each cleanup material employed;
 - c. the total volume, in gallons, of all cleanup materials employed;
 - d. the VOC content of each cleanup material employed, in pounds VOC per gallon of cleanup material; and
 - e. the total monthly VOC emissions, in pounds ($b \times d$).
4. The permittee shall maintain annual records of the total VOC emissions, in tons (summation of the emissions from term C.2.e plus the emissions from term C.3.e divided by 2000 pounds per ton.
5. The permit to install for this emissions unit K001 was evaluated based on the actual materials

LOTH

PTI Application: 14-05715

Issued

Facility ID: 1431404180

Emissions Unit ID: **K001**

(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: xylene

TLV (ug/m3): 434,192

Maximum Hourly Emission Rate (lbs/hr): 6.81

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2953

MAGLC (ug/m3): 10,338

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 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 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) is (are) defined as a modification under other provisions of the modification definition, 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 of any daily record showing that the combined VOC emissions (excluding emissions from cleanup materials) from all of the metal furniture coating lines at the facility are equal to or greater than 15 pounds of VOC per day (before add-on controls). The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any daily record showing that emissions unit K001 employs more than the applicable maximum daily coating usage limit in term B.1 and/or exceeds the coating VOC content limitation outlined in term A.2.b. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any monthly record showing that emissions unit K001 employed cleanup materials that exceeded the applicable maximum VOC content limit outlined in term A.2.c. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental

LOTH

PTI Application: 14-05715

Issued

Facility ID: 1431404180

Emissions Unit ID: K001

Services within 45 days after the exceedance(s) occurs.

4. The permittee shall submit annual reports which specify the annual coating and cleanup material usage and the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitations and VOC content limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
14.95 pounds per day VOC

Applicable Compliance Method:
The daily emission limitation specified above is determined by multiplying the maximum daily coating usage limit outlined in term B.1 by the maximum coating VOC content limitation in term A.2.b.
 - b. Emission Limitations:
3.22 TPY VOC

Applicable Compliance Method:
Compliance with the above emissions limitations may be demonstrated by the record keeping requirements as specified in term and condition C.4.
 - c. Emission Limitation:
4.53 pounds of VOC per gallon for coating (as applied);
7.33 pounds of VOC per gallon for cleanup materials

Applicable Compliance Method:
USEPA methods 24 and 24A shall be used to determine the VOC content for coatings and cleanup materials, respectively. 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 or cleanup material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or cleanup material to demonstrate compliance until the USEPA provides
2. Compliance with the coating usage limitations in terms and conditions B.1. and B.2. shall be determined by the record keeping requirements as specified in term and condition C.1. and C.2.

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PTI A

Issued: 5/31/2005

Emissions Unit ID: **K001**

3. Compliance with the cleanup material usage limitation in terms and conditions B.3. shall be determined by the record keeping requirements as specified in term and condition C.3.

F. Miscellaneous Requirements

None