



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 02-22328

Fac ID: 0238000203

DATE: 1/18/2007

Dutch Design
Ernie Hershberger
8216 State Route 241
Fredericksburg, OH 44627

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

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

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

NEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 1/18/2007
Effective Date: 1/18/2007**

FINAL PERMIT TO INSTALL 02-22328

Application Number: 02-22328
Facility ID: 0238000203
Permit Fee: **\$2000**
Name of Facility: Dutch Design
Person to Contact: Ernie Hershberger
Address: 8216 State Route 241
Fredericksburg, OH 44627

Location of proposed air contaminant source(s) [emissions unit(s)]:
**8216 State Route 241
Fredericksburg, Ohio**

Description of proposed emissions unit(s):
2 diesel engines, woodworking equipment, 3 spray booths, 1 oven, 1 dust 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

Laura Powell
Acting 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 (i.e., postmarked) quarterly 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

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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)

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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.

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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.

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>
PE	4.31
OC/VOC	30.61
NOx	19.32
CO	8.37
SO2	6.76

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0238000203

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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.

Operations, Property, and/or Equipment - (P001) - 225 HP John Deere PowerTech 6068H diesel engine

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>0.49 lb/hr and 2.14 TPY of particulate emissions (PE)/PM less than 10 microns in diameter (PM-10).</p> <p>0.69 lb/hr and 3.02 TPY of sulfur dioxide (SO₂). Also includes B.1 below.</p> <p>2.19 lbs/hr and 9.60 TPY of nitrogen dioxides (NO_x).</p> <p>0.56 lb/hr and 2.47 TPY of organic compounds (OC).</p> <p>Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a 6-minute average, except during acceleration.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).</p>
OAC rule 3745-17-11(B)(5)(a)	0.310 lb/mmBtu of particulate emissions.
OAC rule 3745-17-07(A)(1)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

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- 2.a** In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emission limitations and fuel sulfur content restriction.

B. Operational Restrictions

1. The permittee shall use only diesel fuel/number 2 fuel oil with a maximum sulfur content of 0.5 percent, by weight, for combustion in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain documentation of the sulfur content of all fuels received.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5 percent by weight was burned in this emissions unit and any corrective action(s) that were taken. Each report shall be submitted to the Ohio EPA Northeast District Office within 30 days of the deviation.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

0.49 lb/hr of PM/PM-10

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

Emissions Unit ID: **P001**

b. Emission Limitation:

2.14 TPY of PM/PM-10

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.49 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

c. Emission Limitation:

0.69 lb/hr of SO₂

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by the following equation:

$$(0.34 \text{ lb fuel/hp-hr}) (225 \text{ hp}) (S) (64 \text{ SO}_2/32 \text{ S}) (0.9 \text{ conversion})$$

where:

0.34 lb fuel/hp-hr is the manufacturer supplied fuel consumption;

225 hp is the de-rated horsepower;

S is the decimal fraction of sulfur in the fuel, (0.005);

64 is the molecular mass of sulfur dioxide;

32 is the molecular mass of sulfur; and

0.9 is 90% conversion of sulfur to sulfur dioxide.

d. Emission Limitation:

3.02 TPY of SO₂

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable SO₂ emission limitation (0.69 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation,

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compliance shall also be shown with the annual emission limitation.

e. Emission Limitation:

2.19 lbs/hr of NO_x

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00974 lb/hp-hr, emission factor for NO_x + nonmethane hydrocarbons from the California Air Resources Board exhaust certification level for engine family 5JDXL06.803, by 225 hp, the power output rating of this unit.

f. Emission Limitation:

9.60 TPY of NO_x

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable NO_x emission limitation (2.19 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

g. Emission Limitation:

0.56 lb/hr of OC

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00251 lb/hp-hr, the emission factor from AP-42, Table 3.3-1 (10/96), by 225 hp, the power output rating of this unit.

h. Emission Limitation:

2.47 TPY of OC

Applicable Compliance Method:

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The tpy emission limitation was developed by multiplying the short-term allowable OC emission limitation (0.56 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

i. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a 6-minute average, except during acceleration.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

j. Emission Limitation:

0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:

Compliance with the short term emission limitation above may be determined by the following equation:

$$(0.18 \text{ g/kW-hr}) * (\text{lb}/453.59 \text{ g}) * (0.749 \text{ kW/hp-hr}) * (\text{hp-hr}/7000 \text{ Btu}) * (10^6 \text{ Btu/mmBtu})$$

where:

0.18 g/kW-hr is the emission factor from the California Air Resources Board exhaust certification level for engine family 5JDXL06.803.

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

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Facility ID:

0238000203

Emissions Unit ID: **P001**

F. Miscellaneous Requirements

None

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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 - (P002) - 286 HP John Deere PowerTech 6068H diesel engine

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-17-11(B)(5)(a)	0.310 lb/mmBtu of particulate emissions
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions from this air contaminant source since the calculated annual emission rate for particulate emissions is less than ten tons per year taking into account the federally enforceable rule limit of 0.310 pound particulates per million Btu under OAC rule 3745-17-11(B)(5)(a).
- 2.b The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the uncontrolled OC, NO_x, CO and SO₂ emissions from this air contaminant source since the potential to emit for OC, NO_x, CO and SO₂ is less than ten tons per year.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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Emissions Unit ID: **P002**

None

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D. Reporting Requirements

None

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:

0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:

Compliance with the short term emission limitation above may be determined by dividing 0.000495 lb/hp-hr, the emission factor from the US EPA 2006 Model Year Certificated of Conformity for engine family 6JDXL06.8106, by 7000 Btu/hp-hr and multiplying by 1,000,000 Btu/mmBtu.

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

F. Miscellaneous Requirements

None

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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 - (R001) - wood furniture stain coating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See sections A.2.b, A.2.c and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See section A.2.a below.
OAC rule 3745-31-05(C)	See sections A.2.d and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)] are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 12.0 pounds per hour. This limit is based upon the maximum coating application rate of 2.0 gallons per hour.
- 2.c The VOC content of coatings shall not exceed 6.0 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions unit, and from emissions units R001, R002 and R003, combined, shall not

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Emissions Unit ID: **R001**

exceed 25.0 tons per year, as a rolling, 12-month summation.

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B. Operational Restrictions

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for emissions units R001, R002 and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-month period.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling, 12-month limitations of VOC shall be based upon the rolling, 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.
2. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup material are employed in this emissions unit:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
 - d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
 - e. the total number of hours the emissions unit was in operation;
 - f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
 - g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
 - h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:

Emissions Unit ID: **R001**

- a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not employed;
 - c. the VOC content of each coating, in lbs/gallon, as applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
- a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a);
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period]; and
 - e. the actual VOC emissions from emissions units R001, R002 and R003, combined, for the previous, 12-month period.
5. The permit to install for this emissions unit [R001] and emissions units R001, R002 and R003, combined, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the

Emissions Unit ID: **R001**

permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Compound: toluene

TLV (mg/m³): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 4,454Adjusted MAGLC (ug/m³): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

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- 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) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.
2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such occurrence;

Emissions Unit ID: **R001**

- b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded 12.0 pounds per hour, and the actual average VOC emissions for each such day;
- c. each day during which the VOC content of any coating exceeded 6.0 pounds per gallon, and the actual VOC content of each such coating employed; and
- d. any exceedence of the annual VOC* emission limitation of 25.0 tons per year, as a rolling, 12-month summation, and the actual VOC emissions during each such period.

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from emissions units R001, R002 and R003, combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the allowable emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.f based upon the record keeping requirements specified in section C.2.

- b. Emission Limitation:

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40 pounds per day of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.d based upon the record keeping requirements specified in section C.2.

c. Emission Limitation:

12.0 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.3.g based upon the record keeping requirements specified in section C.3.

d. Emission Limitation:

25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from emissions units R001, R002, and R003, combined

Applicable Compliance Method:

Compliance shall be determined by the values recorded in sections C.4.d and C.4.e based upon the record keeping requirements specified in sections C.2, C.3 and C.4.

e. Emission Limitation:

6.0 pounds of VOC per gallon coating, as applied

Applicable Compliance Method:

Any determination of VOC content, solids contents, or density of coating material or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the

Emissions Unit ID: **R001**

coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 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 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A through F, except C.5, C.6, and C.7.

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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 - (R002) - wood furniture seal coating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See sections A.2.b, A.2.c and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See section A.2.a below.
OAC rule 3745-31-05(C)	See section A.2.d and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)] are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 10.68 pounds per hour. This limit is based upon the maximum coating application rate of 2.125 gallons per hour.
- 2.c The VOC content of coatings shall not exceed 5.34 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions

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unit, and from emissions units R001, R002 and R003, combined, shall not exceed 25.0 tons per year, as a rolling, 12-month summation.

B. Operational Restrictions

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for emissions units R001, R002, and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-month period.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling, 12-month limitations of VOC shall be based upon the rolling, 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.
2. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup material are employed in this emissions unit:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
 - d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
 - e. the total number of hours the emissions unit was in operation;
 - f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
 - g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
 - h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:

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- a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not employed;
 - c. the VOC content of each coating, in lbs/gallon, as applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
- a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a);
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period]; and
 - e. the actual VOC emissions from emissions units R001, R002 and R003, combined, for the previous, 12-month period.
5. The permit to install for this emissions unit [R002] and emissions units R001, R002 and

Emissions Unit ID: **R002**

R003, combined, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Compound: toluene

TLV (mg/m3): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 4,454

Adjusted MAGLC (ug/m3): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was

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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) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.
2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically

Emissions Unit ID: **R002**

reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such occurrence;

- b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded 10.68 pounds per hour, and the actual average VOC emissions for each such day;
- c. each day during which the VOC content of any coating exceeded 5.34 pounds per gallon, and the actual VOC content of each such coating employed;
- d. any exceedence of the annual VOC* emission limitation of 25.0 tons per year, as a rolling, 12-month summation, and the actual VOC emissions during each such period.

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from emissions units R001, R002 and R003, combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the allowable emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.f based upon the record keeping requirements specified in section C.2.

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b. Emission Limitation:

40 pounds per day of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.d based upon the record keeping requirements specified in section C.2.

c. Emission Limitation:

10.68 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.3.g based upon the record keeping requirements specified in section C.3.

d. Emission Limitation:

25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from R001, R002, and R003, combined

Applicable Compliance Method:

Compliance shall be determined by the value recorded in sections C.4.d and C.4.e based upon the record keeping requirements specified in sections C.2, C.3 and C.4.

e. Emission Limitation:

5.34 pounds of VOC per gallon coating, as applied

Applicable Compliance Method:

Any determination of VOC content, solids contents, or density of coating material

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or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 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 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A through F, except C.5, C.6, and C.7.

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 - (R003) - wood furniture topcoating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See sections A.2.b, A.2.c and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See section A.2.a below.
OAC rule 3745-31-05(C)	See sections A.2.d and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)] are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 10.20 pounds per hour. This limit is based upon the maximum coating application rate of 2.125 gallons per hour.
- 2.c The VOC content of coatings shall not exceed 4.80 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions unit, and from emissions units R001, R002 and R003, combined, shall not exceed 25.0 tons per year, as a rolling, 12-month summation.

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Emissions Unit ID: **R003**

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B. Operational Restrictions

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for emissions units R001, R002 and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-month period.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling, 12-month limitations of VOC shall be based upon the rolling, 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.
2. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup material are employed in this emissions unit:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
 - d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
 - e. the total number of hours the emissions unit was in operation;
 - f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
 - g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
 - h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:

Emissions Unit ID: **R003**

- a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not employed;
 - c. the VOC content of each coating, in lbs/gallon, as applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
- a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a);
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period]; and
 - e. the actual VOC emissions from emissions unit R001, R002 and R003, combined, for the previous, 12-month period.
5. The permit to install for this emissions unit [R003] and emissions units R001, R002 and R003, combined, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the

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permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as required in Engineering Guide #70. The following summarizes the results of the modeling for the "worst case" pollutant(s):

Compound: toluene

TLV (mg/m³): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 4,454

Adjusted MAGLC (ug/m³): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was

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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) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.
2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such occurrence;

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- b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded 10.20 pounds per hour, and the actual average VOC emissions for each such day;
- c. each day during which the VOC content of any coating exceeded 4.80 pounds per gallon, and the actual VOC content of each such coating employed; and
- d. any exceedence of the annual VOC* emission limitation of 25.0 tons per year, as a rolling, 12-month summation, and the actual VOC emissions during each such period.

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

- 3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from emissions units R001, R002 and R003, combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

- 1. Compliance with the allowable emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.f based upon the record keeping requirements specified in section C.2.

Emissions Unit ID: **R003**

b. Emission Limitation:

40 pounds per day of OC emissions for each day that photochemically reactive materials are employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.2.d based upon the record keeping requirements specified in section C.2.

c. Emission Limitation:

10.20 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed

Applicable Compliance Method:

Compliance shall be determined by the daily values calculated in section C.3.g based upon the record keeping requirements specified in section C.3.

d. Emission Limitation:

25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from emissions units R001, R002 and R003, combined

Applicable Compliance Method:

Compliance shall be determined by the values recorded in sections C.4.d and C.4.e based on the record keeping requirements specified in sections C.2, C.3 and C.4.

e. Emission Limitation:

4.80 pounds of VOC per gallon coating, as applied

Applicable Compliance Method:

Any determination of VOC content, solids contents, or density of coating material or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the

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coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 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 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A through F, except C.5, C.6, and C.7.