



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
COSHOCOTON 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: 06-08388

Fac ID: 0616000216

DATE: 4/24/2008

Millcreek Finishing dba Ohio Valley Fini
John Schlabach
30812 Township Route 213
Fresno, OH 42824

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

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 4/24/2008
Effective Date: 4/24/2008**

FINAL PERMIT TO INSTALL 06-08388

Application Number: 06-08388
Facility ID: 0616000216
Permit Fee: **\$400**
Name of Facility: Millcreek Finishing dba Ohio Valley Fini
Person to Contact: John Schlabach
Address: 30812 Township Route 213
Fresno, OH 42824

Location of proposed air contaminant source(s) [emissions unit(s)]:
**30812 Township Route 213
Fresno, Ohio**

Description of proposed emissions unit(s):
Chapter 31 modification.

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

Chris Korleski
Director

Millcreek Finishing dba Ohio Valley Fini
PTI Application: 06-08388
Issued: 4/24/2008

Facility ID: 0616000216

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>
VOC	24.9
Single HAP	9.0
Combined HAPs	24.0

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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 - Sealer Booth (This PTI supercedes the previously issued PTI #06-08270 on 7/26/07 for emissions units R002 and R003)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The volatile organic compound (VOC) emissions from all the coatings and cleanup materials for this emissions unit shall not exceed 12.32 pounds per day and 24.9 tons per year.</p> <p>See B.1 below.</p> <p>The requirements of this rule also include compliance with requirements of OAC rule 3745-31-05(C).</p>
OAC rule 3745-31-05(C) (Synthetic Minor to Avoid Title V and MACT applicability)	See A.2.a and A.2.c below.
ORC 3704.03(F)(4) and OAC rule 3745-114	See A.2.b and B.1 below.

2. Additional Terms and Conditions

- 2.a The VOC emissions from all the coatings and cleanup materials for emissions units R001, R002, R003, and Z001 (Paint Booth), combined, shall not exceed 24.9 tons per rolling, 12-month period.
- 2.b The toluene content of each coating shall not exceed 0.77 pounds per gallon, as applied, for sealers, and 0.80 pounds per gallon, as applied, for topcoats.
- 2.c The content of any single hazardous air pollutant (HAP)¹ in any coating or cleanup material shall not exceed 36 percent, by weight, of the VOC portion of the coating or cleanup material, as applied. The content of the combined HAPs

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in any coating or cleanup material shall not exceed 96 percent, by weight, of the VOC portion of the coating or cleanup material, as applied.

¹ A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. Material Safety Data Sheets or Environmental Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials.

B. Operational Restrictions

1. The hours of operation for this emissions unit shall not exceed 93 hours (15.5 hours per 24 hour period) of coating time every 168 hours (7 days).
2. The weight of organic material in solvent evaporated/used (minus any recovered for disposal), which is equivalent to VOC emissions, shall not exceed 24.9 tons during any rolling, 12-month period from emissions units R001, R002, R003, and Z001 combined.

Compliance with this limitation shall be based upon a rolling, 12-month summation of facility-wide solvent usage, calculated monthly, using the following equation:

Solvent Usage = [Summation (pounds of coatings employed x solvent content of coatings in percent VOC by weight) + (pounds of cleanup solvent employed) for all calendar months] x 0.0005 ton per pound.

3. To ensure enforceability with the annual solvent usage restriction during the first 12 calendar months of operation following startup, the permittee shall not exceed the solvent usage levels specified in the following table for R001, R002, R003, and Z001, combined:

Month(s)	Maximum Allowable Solvent Usage (Tons)
1	4.0
1 - 2	8.0
1 - 3	12.0
1 - 4	16.0
1 - 5	20.0
1 - 6	24.0
1 - 7	24.9
1 - 8	24.9
1 - 9	24.9

Emissions Unit ID: R002

1 - 10	24.9
1 - 11	24.9
1 - 12	24.9

After the first 12 calendar months of operation following issuance of this permit, compliance with the annual solvent usage restriction shall be based upon a rolling, 12-month summation of the monthly solvent usage (emission) figures maintained in C.4 below.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the company identification for each coating or cleanup material employed;
 - b. the VOC content of each coating, in lbs/gallon, as applied;
 - c. the number of gallons of each coating employed minus the number of gallons of each coating recovered for disposal;
 - d. the total VOC emissions from all the coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly VOC emission rate for all the coatings, i.e., (e)/(f), in lbs/hr.
2. The permittee shall collect and record the following information each month for the emissions unit:
 - a. the number of gallons of each cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the VOC content of each cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all cleanup materials employed, in lbs/month, i.e., sum of (b) times (a);
 - d. the actual VOC emissions from all the coatings and cleanup materials employed, in tons [i.e., (the summation of the daily VOC emissions, from section C.1.d, for

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the calendar month + the monthly cleanup material VOC emissions from section C.2.c) divided by 2000 lbs/ton]; and

- e. during the first 12 months after the startup of emissions unit R001, R002 or R003, the cumulative total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001, combined, since startup; thereafter, the rolling, 12-month summation of total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001 combined (calculated by adding the current month's VOC emissions to the VOC emissions for the preceding 11 months).
3. The permittee shall calculate and record the total VOC emissions for all the coatings and cleanup materials employed, in tons, for each calendar year from this emissions unit.
 4. The permittee shall maintain records of the toluene emissions, in pounds per day, the actual single HAP content and the combined HAPs content for each coating and cleanup material, in percent by weight of the VOC portion of the coating or cleanup material, as applied, (i.e., the pounds of HAP per gallon divided by the pounds of VOC per gallon).
 5. The permittee shall record each week the total number of hours the emissions unit was in operation; i.e., sum of 1.e for the week.
 6. The permits to install (06-08270 and 06-08388) for these emissions units, R001, R002, R003, and Z001, combined, were evaluated based on the actual materials and the design parameters of the emissions units' exhaust system, as specified by the permittee in the permit application. The Ohio EPA's "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to these emissions units for each toxic air contaminant listed in OAC 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN 3.0, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration results from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
 - a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour work week, for each toxic compound

Emissions Unit ID: **R002**

emitted from the emissions units (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

- i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
- ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting

calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV \text{ OVER } 10 \sim \text{TIMES} \left\{ \frac{TLV \text{ OVER } X}{4} \sim \left\{ \frac{TLV \text{ OVER } XY}{4} \right\} = \text{MAGLC} \right.$$

d. The following summarizes the results of dispersion modeling for the "worst case" toxic contaminant:

Compound: Toluene

TLV (mg/m3): 20

Maximum Hourly Emission Rate (lbs/hr): 3.45 (emissions units combined)

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m3): 2474.90

Adjusted* MAGLC (ug/m3): 3241.37

*Adjusted refers to basing the calculation on 93 hr (15.5 hours/24 hour period) of coating time per 168 hours, per ORC 3704.03(F)(4) and OAC rule 3745-114.

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The permittee, has demonstrated that emissions of toluene, from emissions units R002 and R003, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic contaminant in accordance with ORC 3704.03(F).

7. Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration", the permittee shall re-model the

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change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, 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 new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV 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 toxic air contaminant listed in OAC 3745-114-01, that was modeled from the initial (or last) application; and
- c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" 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 a non-restrictive change to a parameter or process operation, where compliance with the ORC 3704.03(F), the statute, has been documented. If the change(s) meet(s) the definition of a "modification" or if a new toxic is emitted, or the modeled toxic(s) is/are expected to exceed the previous permitted level(s), then the permittee shall apply for and obtain a final permit-to-install prior to the change. The director may consider any significant departure from the operations of the emissions unit, described in the permit-to-install application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and may require the permittee to submit a permit-to-install application for the increased emissions.

8. The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute":
 - a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in

Emissions Unit ID: **R002**

accordance with ORC 3704.03(F);

- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with ORC 3704.03(F) and documentation of any determination that was conducted to reevaluate compliance due to a change made to the emissions unit(s) or the materials applied.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify:
 - a. each day during which the average VOC emissions from the coatings and cleanup materials exceeded 12.32 pounds per hour, and the actual average VOC emissions for each such day;
 - b. any week (168 hours) during which the hours of operation of the emissions unit exceeded 93 (15.5 hours in a 24 hour period); and
 - c. all exceedances of the toluene emission limitation specified above for each day, and the actual toluene emissions for each such day; and
 - d. all exceedances of the single HAP and/or combined HAPs content limitation specified above for each coating or cleanup material, as applied, and the actual HAP contents of each such coating or cleanup material.

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

2. The permittee shall submit annual reports that summarize the actual annual VOC emissions from this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall notify SEDO, in writing, of any record showing that the rolling, 12-month summation of the VOC emissions from the coatings and cleanup materials from emissions units R001, R002, R003, and Z001 combined exceeded 24.9 tons and the actual VOC emissions for each such 12-month period. The permittee shall identify

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the cause for the emission exceedance and any corrective action taken. The notification shall include a copy of such record and shall be sent to SEDO within 30 days after the event occurs.

4. During the first 12 months after startup, the permittee shall notify SEDO, in writing, of any record showing that the cumulative total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001, combined, since startup, exceeded the value from the table in Section B.3 for that time period.

E. Testing Requirements

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

- a. Emissions Limitation:
12.32 pounds VOC emissions per hour.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.1.f based on the record keeping specified in Section C.1.

- b. Emissions Limitation:
The VOC emissions from all the coatings and cleanup materials for emissions units R001, R002, R003, and Z001 (Paint Booth), combined, shall not exceed 24.9 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.2.e. based on the record keeping as specified in Section C.1 and C.2.

- c. Emissions Limitation:
VOC emissions from all the coatings and cleanup materials for this emissions unit shall not exceed 24.9 tons per year.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.3 based on the record keeping as specified in Section C.1 and C.2.

2. USEPA Method 24 or formulation data shall be used to determine the VOC contents of

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Emissions Unit ID: R002

the coatings and cleanup materials.

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 - R003 - Topcoat Booth (This PTI supercedes the previously issued PTI #06-08270 on 7/26/07 for emissions units R002 and R003)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The volatile organic compound (VOC) emissions from all the coatings and cleanup materials for this emissions unit shall not exceed 12.32 pounds per hour and 24.9 tons per year.</p> <p>See B.1 below.</p> <p>The requirements of this rule also include compliance with requirements of OAC rule 3745-31-05(C)</p>
OAC rule 3745-31-05(C) (Synthetic Minor to Avoid Title V and MACT applicability)	See A.2.a and A.2.c below.
ORC 3704.03(F)(4) and OAC rule 3745-114	See A.2.b and B.1 below.

2. Additional Terms and Conditions

- 2.a The VOC emissions from all the coatings and cleanup materials for emissions units R001, R002, R003, and Z001 (Paint Booth), combined, shall not exceed 24.9 tons per rolling, 12-month period.
- 2.b The toluene content of each coating shall not exceed 0.77 pounds per gallon, as applied, for sealers, and 0.80 pounds per gallon, as applied, for topcoats.
- 2.c The content of any single hazardous air pollutant (HAP)¹ in any coating or cleanup material shall not exceed 36 percent, by weight, of the VOC portion of

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the coating or cleanup material, as applied. The content of the combined HAPs in any coating or cleanup material shall not exceed 96 percent, by weight, of the VOC portion of the coating or cleanup material, as applied.

¹ A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. Material Safety Data Sheets or Environmental Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials.

B. Operational Restrictions

1. The hours of operation for this emissions unit shall not exceed 93 hours (15.5 hours per 24 hour period) of coating time every 168 hours (7 days).
2. The weight of organic material in solvent evaporated/used (minus any recovered for disposal), which is equivalent to VOC emissions, shall not exceed 24.9 tons during any rolling, 12-month period from emissions units R001, R002, R003, and Z001 combined.

Compliance with this limitation shall be based upon a rolling, 12-month summation of facility-wide solvent usage, calculated monthly, using the following equation:

Solvent Usage = [Summation (pounds of coatings employed x solvent content of coatings in percent VOC by weight) + (pounds of cleanup solvent employed) for all calendar months] x 0.0005 ton per pound.

3. To ensure enforceability with the annual solvent usage restriction during the first 12 calendar months of operation following startup, the permittee shall not exceed the solvent usage levels specified in the following table for R001, R002, R003, and Z001, combined:

Month(s)	Maximum Allowable Solvent Usage (Tons)
1	4.0
1 - 2	8.0
1 - 3	12.0
1 - 4	16.0
1 - 5	20.0
1 - 6	24.0
1 - 7	24.9
1 - 8	24.9

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1 - 9	24.9
1 - 10	24.9
1 - 11	24.9
1 - 12	24.9

After the first 12 calendar months of operation following issuance of this permit, compliance with the annual solvent usage restriction shall be based upon a rolling, 12-month summation of the monthly solvent usage (emission) figures maintained in C.4 below.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the company identification for each coating or cleanup material employed;
 - b. the VOC content of each coating, in lbs/gallon, as applied;
 - c. the number of gallons of each coating employed minus the number of gallons of each coating recovered for disposal;
 - d. the total VOC emissions from all the coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly VOC emission rate for all the coatings, i.e., (e)/(f), in lbs/hr.
2. The permittee shall collect and record the following information each month for the emissions unit:
 - a. the number of gallons of each cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the VOC content of each cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all cleanup materials employed, in lbs/month, i.e., sum of (b) times (a);

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- d. the actual VOC emissions from all the coatings and cleanup materials employed, in tons [i.e., (the summation of the daily VOC emissions, from section C.1.d, for the calendar month + the monthly cleanup material VOC emissions from section C.2.c) divided by 2000 lbs/ton]; and
 - e. during the first 12 months after the startup of emissions unit R001, R002 or R003, the cumulative total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001, combined, since startup; thereafter, the rolling, 12-month summation of total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001 combined (calculated by adding the current month's VOC emissions to the VOC emissions for the preceding 11 months).
3. The permittee shall calculate and record the total VOC emissions for all the coatings and cleanup materials employed, in tons, for each calendar year from this emissions unit.
 4. The permittee shall maintain records of the toluene emissions, in pounds per day, the actual single HAP content and the combined HAPs content for each coating and cleanup material, in percent by weight of the VOC portion of the coating or cleanup material, as applied, (i.e., the pounds of HAP per gallon divided by the pounds of VOC per gallon).
 5. The permittee shall record each week the total number of hours the emissions unit was in operation; i.e., sum of 1.e for the week.
 6. The permits to install (06-08270 and 06-08388) for these emissions units, R001, R002, R003, and Z001, combined, were evaluated based on the actual materials and the design parameters of the emissions units' exhaust system, as specified by the permittee in the permit application. The Ohio EPA's "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to these emissions units for each toxic air contaminant listed in OAC 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN 3.0, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration results from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
 - a. the exposure limit, expressed as a time-weighted average concentration for a

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conventional 8-hour workday and a 40-hour work week, for each toxic compound emitted from the emissions units (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

- i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
- ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$\text{TLV OVER } 10 \sim \text{TIMES } \left\{ \frac{8 \text{ OVER } X}{4} \right\} \sim \text{TIMES } \left\{ \frac{5 \text{ OVER } Y}{5} \right\}$$

d. The following summarizes the results of dispersion modeling for the "worst case" toxic contaminant:

Compound: Toluene

TLV (mg/m³): 20

Maximum Hourly Emission Rate (lbs/hr): 3.45 (emissions units combined)

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 2474.90

Adjusted* MAGLC (ug/m³): 3241.37

*Adjusted refers to basing the calculation on 93 hr (15.5 hours/24 hour period) of

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coating time per 168 hours, per ORC 3704.03(F)(4) and OAC rule 3745-114.

The permittee, has demonstrated that emissions of toluene, from emissions units R002 and R003, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic contaminant in accordance with ORC 3704.03(F).

7. Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration", the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, 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 new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV 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 toxic air contaminant listed in OAC 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" 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 a non-restrictive change to a parameter or process operation, where compliance with the ORC 3704.03(F), the statute, has been documented. If the change(s) meet(s) the definition of a "modification" or if a new toxic is emitted, or the modeled toxic(s) is/are expected to exceed the previous permitted level(s), then the permittee shall apply for and obtain a final permit-to-install prior to the change. The director may consider any significant departure from the operations of the emissions unit, described in the permit-to-install application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and may require the permittee to submit a permit-to-install application for the increased emissions.

8. The permittee shall collect, record, and retain the following information for each toxic

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evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute":

- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
- b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with ORC 3704.03(F) and documentation of any determination that was conducted to reevaluate compliance due to a change made to the emissions unit(s) or the materials applied.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify:
 - a. each day during which the average VOC emissions from the coatings and cleanup materials exceeded 12.32 pounds per hour, and the actual average VOC emissions for each such day;
 - b. any week (168 hours) during which the hours of operation of the emissions unit exceeded 93 (15.5 hours in a 24 hour period); and
 - c. all exceedances of the toluene emission limitation specified above for each day, and the actual toluene emissions for each such day; and
 - d. all exceedances of the single HAP and/or combined HAPs content limitation specified above for each coating or cleanup material, as applied, and the actual HAP contents of each such coating or cleanup material.

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

2. The permittee shall submit annual reports that summarize the actual annual VOC emissions from this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall notify SEDO, in writing, of any record showing that the rolling, 12-month summation of the VOC emissions from the coatings and cleanup materials from emissions units R001, R002, R003, and Z001 combined exceeded 24.9 tons and the actual VOC emissions for each such 12-month period. The permittee shall identify the cause for the emission exceedance and any corrective action taken. The notification shall include a copy of such record and shall be sent to SEDO within 30 days after the event occurs.
4. During the first 12 months after startup, the permittee shall notify SEDO, in writing, of any record showing that the cumulative total VOC emissions from all the coatings and cleanup materials employed in emissions units R001, R002, R003, and Z001, combined, since startup, exceeded the value from the table in Section B.3 for that time period.

E. Testing Requirements

1. Compliance with the allowable emission limitations in Section A. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitation:
12.32 pounds VOC emissions per hour.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.1.f. based on the record keeping specified in Section C.1.
 - d. Emissions Limitation:
The VOC emissions from all the coatings and cleanup materials for emissions units R001, R002, R003, and Z001 (Paint Booth), combined, shall not exceed 24.9 tons per rolling, 12-month period.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.2.e. based on the record keeping as specified in Section C.1, and C.2.

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- e. Emissions Limitation:
VOC emissions from all the coatings and cleanup materials for this emissions unit shall not exceed 24.9 tons per year.

Applicable Compliance Method:

Compliance shall be determined by the value recorded in C.3 based on the record keeping as specified in Section C.1, and C.2.

- 2. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the coatings and cleanup materials.

F. Miscellaneous Requirements

None