



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
FRANKLIN COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08498

Fac ID: 0125041181

DATE: 2/16/2006

Sherwin Williams Company
Rick Holt
2121 New World Dr
Columbus, OH 43207

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

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

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 2/16/2006
Effective Date: 2/16/2006**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-08498

Application Number: 01-08498
Facility ID: 0125041181
Permit Fee: **\$2400**
Name of Facility: Sherwin Williams Company
Person to Contact: Rick Holt
Address: 2121 New World Dr
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:

**2121 New World Dr
Columbus, Ohio**

Description of proposed emissions unit(s):

Coil coatings paint production.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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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.

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12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

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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>
OC	17.8
Individual HAP	9.9
Combined HAPs	24.9
PE	1.35

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P138 - 1,000 gallon grind tank (416) for solvent-based paints vented to a dust collector and thermal oxidizer	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(A)
		OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)
		OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-07(A)(1)	

Applicable Emissions
Limitations/Control
Measures

Organic compound (OC) emissions shall not exceed 3.93 lbs/batch and 4.0 tons/yr. See sections A.2.a and B.1 below.

Particulate emissions (PE) shall not exceed 0.22 lb/hr and 0.97 ton/yr. See sections A.2.b and B.3 below.

Visible PE shall not exceed 5% opacity as a 3-minute average from any stack or outside vent associated with this emission unit, during the addition of solids.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).

The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).

The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).

The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).

See sections A.2.a, A.2.d B.3, F.1.b, and F.2 below.

See section A.2.a, A.2.e, F.1, and F.2 below.

Modification Issued: 2/16/2006**2. Additional Terms and Conditions**

- 2.a** The vapor collection system shall achieve a minimum 90% capture of OC emissions, which shall be vented to the regenerative thermal oxidizer (RTO) that achieves a minimum 95% reduction of OC emissions vented to it .
- 2.b** The PE collection system shall achieve a minimum 70% capture efficiency and vent to the dust collector that achieves a minimum 95% PE control.
- 2.c** The 0.22 lb PE/hr and 0.97 ton PE/yr emission limitations were established to reflect the potential to emit of this emissions unit. Therefore, record keeping and reporting requirements are not necessary to demonstrate compliance with the PE limitations.
- 2.d** The 3.93 lbs OC/batch and 4.0 tons OC/yr emission limitations were established to reflect the potential to emit of this emission unit. The batch emission limitation is based upon a "worse case" coating during a 4 hour batch period and a 800 gallon batch size at a maximum "worse case" emission rate of 8.84 lbs OC/1,800 gallon batch assuming formulation calculations in the applicant's air permit to install application. The annual emission limitation is based on 168 batches per month based on supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the 168 batches per month operational restriction or manufactures a coating that results in more emission than the "worse case" coating.
- 2.e** The restrictions to potential to emit (PTE) for emission units at this facility, as documented with on-site record keeping, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The average combustion temperature within the thermal oxidizer, for any 3-hour block of time when these emissions units are in operation, shall not be less than 50 degrees less than the average combustion temperature during the most recent stack test that demonstrated compliance.
2. The pressure drop across the dust collector shall be maintained within the range of 0.2 and 3 inches of water while the emissions unit is in operation.
3. The permittee shall not grind more than 168 batches of coatings per month in this emission unit.
4. The material addition hatch shall be closed, except during addition of material through the hatch or product quality check.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less 50 degrees less than the average combustion temperature during the most recent stack test that demonstrated compliance.
 - b. A log of the downtime (as defined in C.1.a above) for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to monitor the pressure

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drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. Once per day the permittee shall record the following in the operations log:

- a. pressure drop across the baghouse for each day of operation, and
 - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.
3. The permittee shall maintain monthly records of the following for each emission unit employed for solvent-based grinding at this facility:
- a. the identification number of each formulation and batch production date;
 - b. the volume of each solvent, in gallons, added for each batch produced; and
 - c. summation of the number of paint batches ground per month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify deviations (excursions) associated with the following emissions limitations and operational restrictions:
 - a. all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator is 50 degrees less than the average combustion temperature during the most recent stack test that demonstrated compliance or does not comply with the temperature limitation specified above;
 - b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation;
 - c. all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above;
 - d. each month during which more than 168 batches of solvent-based coatings were ground; and
 - e. each day during which a higher emitting coating is manufactured as compared to the "worse case coating".

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

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2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

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

- a. Emission Limitation:
OC emissions shall not exceed 3.93 lbs/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999), the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 90% capture efficiency assumption and testing to confirm the 95% destruction efficiency. Therefore, compliance with the batch emission limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the thermal incinerator combustion chamber temperature is operated within the applicable 3-hour average combustion temperature range.

- b. Emission Limitation:
OC emissions shall not exceed 4.0 tons/yr

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

- c. Emission Limitation:
PE shall not exceed 0.22 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated based on calculation using a Sherwin-Williams emission factor of 0.64 lb PE/ton of pigment times a maximum

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of 1 ton added per hour reflecting 70% capture and 95% control efficiency. $1 \text{ ton} * 0.64 \text{ lb/ton} * (1 - 0.7) = 0.19 \text{ lb fugitive plus } (0.64 \text{ lb} - 0.19 \text{ lb}) * (1 - 0.95) = 0.02 \text{ lb stack emission} = 0.21 \text{ lb PE/hr.}$

- d. Emission Limitation:
PE shall not exceed 0.97 ton/yr.

Applicable Compliance Method:

Compliance shall be demonstrated assuming maximum potential to emit at 0.22 lb PE/hr. $8,760 \text{ hrs/yr} * 0.22 \text{ lb PE/hr} * 1 \text{ ton}/2,000 \text{ lbs} = 0.964 \text{ ton/yr.}$

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- e. Emission Limitation:
Visible PE shall not exceed 5% opacity, as a 3-minute average, from any stack or outside vent associated with this emission unit, during the addition of solids.

Applicable Compliance Method:

If required compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

- 1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

- 2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material

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addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions

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from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the above emissions units; and

- g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and

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- b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

- b. Emission Limitation:

The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852;

3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P139 - 1,000 gallon thin and shade tank (382) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.11 pound per batch and 0.01 ton/yr. See section A.2.a and B.1 below.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 B.2, F.1.b and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b F.1 and F.2 below.

2. Additional Terms and Conditions

- The 0.11 lb OC/batch and 0.01 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation batch;

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- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 15 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.11 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP),

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Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.01 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

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F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

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3. The permittee shall maintain the following monthly records on-site, to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:

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- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1;
and
- b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:

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- a. Emission Limitation:
 The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

- b. Emission Limitation:
 The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

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

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that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model

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runs that show the results of the application of the "Air Toxic Policy" for the change.

Sherv

PTI A

Modification Issued: 2/16/2006

Emissions Unit ID: P140

Part II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P140 - 1,000 gallon thin and shade tank (383) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.11 pound per batch and 0.01 ton/yr. See section A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a , B.1 B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a A.2.b, F.1, and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.11 lb OC/batch and 0.01 ton OC/yr emission limitations were established

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Emissions Unit ID: P140

to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the

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hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee maintained on-site, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month in this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation

batch;

- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 15 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.11 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating

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that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.01 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly

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fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the above emissions units; and

- a. Emission Limitation:
 The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

- b. Emission Limitation:
 The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

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

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Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P141 - 1,000 gallon thin and shade tank (384) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.11 pound per batch and 0.01 ton/yr. See section A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 and B.2, F.1.b and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a and A.2.b, F.1, and F.2 below.

2. Additional Terms and Conditions

- The 0.11 lb OC/batch and 0.01 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore,

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compliance with the

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hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month in this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation

batch;

- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 1 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.11 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating

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that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.01 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

- 1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

- 2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material

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addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions

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from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and

- g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration

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from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. 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

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not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P142 - 1,000 gallon thin and shade tank (385) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.11 pound per batch and 0.01 ton/yr. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, B.1, F.1.b, and F.2 below.
		See sections A.2.a , A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.11 lb OC/batch and 0.01 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the

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hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month from this emission unit.

C.. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation

batch;

- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 15 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.11 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module

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(APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.01 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106,

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P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site, to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent

exempt and de minimis emissions units.

4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

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Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P143 - 1,000 gallon thin and shade tank (386) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.11 pound per batch and 0.01 ton/yr. See section A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a A.2.b, F.1, and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.11 lb OC/batch and 0.01 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" emission formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance

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with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation

batch;

- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 15 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.11 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating

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that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.01 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

- 1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

- 2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material

addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site, to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent

exempt and de minimis emissions units.

4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration

from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P146 - 2,000 gallon thin and shade tank (375) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 pound per batch and 0.06 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See section A.2.a A.2.b, F.1, and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.67 lb OC/batch and 0.06 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.67 lb/batch.

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Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the permit allows and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

b. Emission Limitation:

OC emissions shall not exceed 0.06 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.
2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:

- a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;

- e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack

diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P147 - 2,000 gallon thin and shade tank (376) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 pound per batch and 0.06 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B). The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a A.2.b, F.1, and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.67 lb OC/batch and 0.06 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
 - d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.
2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

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

- a. Emission Limitation:
OC emissions shall not exceed 0.67 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. Emission Limitation:
OC emissions shall not exceed 0.06 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and

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conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis sources:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;

- b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

- b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the

most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P148 - 2,000 gallon thin and shade tank (377) for solvent-based paint production w/zeolite production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 pound per batch and 0.06 ton per year. See sections A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1 B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.67 lb OC/batch and 0.06 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
 - d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.
2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

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

- a. Emission Limitation:
OC emissions shall not exceed 0.67 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. Emission Limitation:
OC emissions shall not exceed 0.06 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and

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conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;

- b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

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- b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of

Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P149 - 2,000 gallon thin and shade tank (378) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 pound per batch and 0.06 ton per year. See section A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.67 lb OC/batch and 0.06 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the

- tank;
- b. the volume of each solvent added during each batch, in either pounds or gallons;
 - c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
 - d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.
2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

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E. Testing Requirements

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

- a. Emission Limitation:
OC emissions shall not exceed 0.67 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% removal efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. Emission Limitation:
OC emissions shall not exceed 0.06 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:

- a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
- b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the

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- previous 11 months) for all of the above emissions units;
- c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified

in section F.3 of this permit.

b. Emission Limitation:

The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P150 - 2,000 gallon thin and shade tank (379) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.67 pound per batch and 0.06 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.67 lb OC/batch and 0.06 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.67 lb/batch.

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Applicable Compliance Method:

Compliance shall be determined by using the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% removal efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

b. Emission Limitation:

OC emissions shall not exceed 0.06 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:

- a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;

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- e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P151 - 2,000 gallon thin and shade tank (381) for water-based paint production	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.21 pound per batch and 0.02 ton/yr. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
		See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.21 lb OC/batch and 0.02 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and are based upon a 48 hour batch period at a maximum 0.11 lbs OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore,

compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (HAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons HAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The weight percent of water in water-based coatings shall be greater than the combined weight percent of all VOCs; the combined VOC content shall not exceed 25% by weight; and water shall be employed to clean and rinse the blending vessel to ensure a maximum batch emission rate of 0.11 lb OC/1,000 gallon uncontrolled from the T&S tank.
2. The permittee shall not blend and pump to the filling line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records on a monthly basis for each batch of water-based coating produced:
 - a. the identification number of the formulation and volume, in gallons, of grind pumped into the tank;
 - b. the volume, in gallons, of each liquid organic material added to each formulation

batch;

- c. the volume, in gallons, of water added to each formulation batch;
- d. a calculation of the liquid organic material content in, percent by weight, in the final coating; and
- e. a summation of cumulative number of batches of water-based coating blended and pumped to the fill line during each month.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which more than 15 batches of coating were blended and pumped to the fill line from this emissions unit; and
 - b. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.21 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities". Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating

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that results in more emission than the "worse case" coating.

- b. Emission Limitation:
OC emissions shall not exceed 0.02 ton/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

- 1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

- 2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material

addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.

3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, in each of the above mentioned emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, in each of the above mentioned emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, in each of the above mentioned emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions

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from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the above emissions units; and

- g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. **Emission Limitation:**
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P157 - Small batch paint dispersing station D427 vented to dust collector	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 3.75 lbs/batch and 4.1 tons per year. See sections A.2.a and A.II.1 below.
	OAC rule 3745-21-07(G)(2)	Particulate emissions (PE) shall not exceed 0.64 lb/hr and 0.125 ton/yr.
		See sections A.2.b and A.2.c below.
		The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05.
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.d, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 3.75 lbs OC/batch and 4.1 tons OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 4 hour batch period at a maximum 3.75 lbs OC assuming "worst case" coating formulation calculations in the applicant's air permit to install application and 6 batches per day. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the 6 batch per day operational restriction or manufactures a coating that results in more emission than the "worse case" coating.
- 2.b** During pigment and other solids addition, the capture efficiency of hooding shall be sufficient to minimize visible PE at the point of capture.
- 2.c** Visible PE shall not exceed 5% opacity as a 3-minute average from roof vents and stacks during solid addition to this emissions unit.
- 2.d** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with the federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. The maximum production rate for each small batch dispersing station shall not exceed 6 batches/day.
2. The pressure drop across the dust collector shall be maintained within the range of 0.2 and 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following:
 - a. the identification of each coating and date produced;

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- b. the weight and solvent composition in percent by weight of each coating produced; and
- c. the number of batches produced per day.

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D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and
 - b. exceedances of the daily batch production restriction, as well as the corrective actions that were taken to return to compliance.

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

E. Testing Requirements

1. Compliance with the emission limitations in section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 3.75 lbs/batch:

Applicable Compliance Method:
Compliance shall be determined by using the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" verified by mass balance weighting. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating.
 - b. Emission Limitation:
OC emissions shall not exceed 4.1 tons/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed that daily batch emission restriction because the annual emission limitation is based on the (PTE).

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056,

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- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

b. Emission Limitation:

The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or

not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

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- 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.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P158 - Small batch paint dispersing station D428 vented to dust collector	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 3.75 lbs/batch and 4.1 tons per year. See sections A.2.a and A.II.1 below. Particulate emissions (PE) shall not exceed 0.64 lb/hr and 0.125 ton/yr. See sections A.2.b and A.2.c below.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05.
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.d, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 3.75 lbs OC/batch and 4.1 tons OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and is based upon the following parameters: a 4 hour batch period at a maximum 3.75 lbs OC assuming "worst case" coating formulation calculations in the applicant's air permit to install application and 6 batches per day. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the 6 batch per day operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** During pigment and other solids addition, the capture efficiency of hooding shall be sufficient to minimize visible PE at the point of capture.
- 2.c** Visible PE shall not exceed 5% opacity as a 3-minute average from roof vents and stacks during solid addition to this emissions unit.
- 2.d** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

- 1. The maximum production rate for each small batch dispersing station shall not exceed 6 batches/day.
- 2. The pressure drop across the dust collector shall be maintained within the range of 0.2 and 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

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1. The permittee shall maintain monthly records of the following:
 - a. the identification of each coating and date produced;
 - b. the weight and solvent composition in percent by weight of each coating produced; and
 - c. the number of batches produced per day.

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D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and
 - b. exceedances of the daily batch production restriction, as well as the corrective actions that were taken to return to compliance.

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

E. Testing Requirements

1. Compliance with the emission limitations in section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 3.75 lbs/batch:

Applicable Compliance Method:
Compliance shall be determined by using the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" verified by mass balance weighting. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating.
 - b. Emission Limitation:
OC emissions shall not exceed 4.1 tons/yr.

Applicable Compliance Method:
Compliance shall be assumed as long as the permittee does not exceed that daily batch emission restriction because the annual emission limitation is based on the (PTE).

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F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document

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compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:

- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

- b. Emission Limitation:

The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

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MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P159 - Small batch paint dispersing station D429 vented to dust collector	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 3.75 lbs/batch and 4.1 tons per year. See sections A.2.a and A.II.1 below. Particulate emissions (PE) shall not exceed 0.64 lb/hr and 0.125 ton/yr. See sections A.2.b and A.2.c below.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than limit established pursuant OAC rule 3745-31-05.
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, A.2.d, B.1, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.d, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 3.75 lbs OC/batch and 4.1 tons OC/yr emission limitations were established

to reflect the potential to emit of this emission unit and is based upon the following parameters: a 4 hour batch period at a maximum 3.75 lbs OC assuming "worst case" coating formulation calculations in the applicant's air permit to install application and 6 batches per day. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the 6 batch per day operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** During pigment and other solids addition, the capture efficiency of hooding shall be sufficient to minimize visible PE at the point of capture.
- 2.c** Visible PE shall not exceed 5% opacity as a 3-minute average from roof vents and stacks during solid addition to this emissions unit.
- 2.d** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

- 1. The maximum production rate for each small batch dispersing station shall not exceed 6 batches/day.
- 2. The pressure drop across the dust collector shall be maintained within the range of 0.2 and 3 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following:
 - a. the identification of each coating and date produced;

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- b. the weight and solvent composition in percent by weight of each coating produced; and
- c. the number of batches produced per day.

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D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify:
 - a. all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and all periods of time during which the pressure drop across the dust collector did not comply with the allowable range specified above; and
 - b. exceedances of the daily batch production restriction, as well as the corrective actions that were taken to return to compliance.

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

E. Testing Requirements

1. Compliance with the emission limitations in section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 3.75 lbs/batch.

Applicable Compliance Method:
Compliance shall be determined by using the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" verified by mass balance weighting. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating.
 - b. Emission Limitation:
OC emissions shall not exceed 4.1 tons/yr.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed that daily batch emission restriction because the annual emission limitation is based on the (PTE).

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056,

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P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:

- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

b. Emission Limitation:

The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

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

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not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P160 - 1,000 gallon thin and shade tank (389) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.34 pound per batch and 0.03 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
		See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the

tank;

- b. the volume of each solvent added during each batch, in either pounds or gallons;
- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

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Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. **Emission Limitation:**
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

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2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;

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- d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. **Emission Limitation:**
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g.,

increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P161 - 1,000 gallon thin and shade tank (390) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.34 pound per batch and 0.03 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

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Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. **Emission Limitation:**
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

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2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;

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- d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
 - a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g.,

increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P162 - 1,000 gallon thin and shade tank (391) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.34 pound per batch and 0.03 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b, and F.1 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See section A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP),

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Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. Emission Limitation:
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:

- a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
- b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
- a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material

- sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
- b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for all

the above emissions units;

- e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. **Emission Limitation:**
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

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6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack

diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P163 - 1,000 gallon thin and shade tank (392) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.34 pound per batch and 0.03 ton per year. See section A.2.a and B.1 below.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3). See sections A.2.a, B.1, B.2, F1.b, and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established

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to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. **Emission Limitation:**
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in term F.2 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:
 - a. the permittee shall equip each solvent-based high speed disperser with a hatch

- cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
- b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
 - a. the calculated OC emissions for the current month, in pounds or tons, for each of the emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the emissions units;

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- d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the emissions units;
 - e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. **Emission Limitation:**
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

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6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m³): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m³): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g.,

increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P164 - 1,000 gallon thin and shade tank (393) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3) OAC rule 3745-21-07(G)(2)

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OAC rule 3745-31-05(C)
(synthetic minor to avoid
non-attainment new
source review)

OAC rule 3745-35-07(B)
(synthetic minor to avoid
TV and MACT)

Applicable Emissions
Limitations/Control Measures

Organic compound (OC)
emissions shall not exceed 0.34
pound per batch and 0.03 ton per
year. See section A.2.a and B.1
below.

The requirements of this rule also
include compliance with the
requirements of 3745-31-05(C)
and 3745-35-07(B).

The emission limitation specified
by this rule is equivalent or less
stringent than the limit
established pursuant OAC rule
3745-31-05(A)(3).

See sections A.2.a, B.1, B.2,
F.1.b and F.2 below.

See sections A.2.a, A.2.b, F.1
and F.2 below.

2. Additional Terms and Conditions

2.a The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

2.b The restrictions to potential to emit (PTE) for emission units at this facility, as

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documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;
 - c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
 - d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.
2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the

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letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module

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(APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. Emission Limitation:
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation

Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that establish federally enforceable limitations are as follows:

- a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 as long with permanent exempt and de minimis emissions units:
- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all the emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for each of the above emissions units;

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- e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all the emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all the emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. **Emission Limitation:**
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. **Emission Limitation:**
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P165 - 1,000 gallon thin and shade tank (394) for solvent-based paint production w/zeolite cannister	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.34 pound per batch and 0.03 ton per year. See section A.2.a and B.1 below. The requirements of this rule also include compliance with the requirements of 3745-31-05(C) and 3745-35-07(B).
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is equivalent or less stringent than the limit established pursuant OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(C) (synthetic minor to avoid non-attainment new source review)	See sections A.2.a, B.1, B.2, F.1.b and F.2 below.
	OAC rule 3745-35-07(B) (synthetic minor to avoid TV and MACT)	See sections A.2.a, A.2.b, F.1 and F.2 below.

2. Additional Terms and Conditions

- 2.a** The 0.34 lb OC/batch and 0.03 ton OC/yr emission limitations were established to reflect the potential to emit of this emission unit and is based upon the following parameters: a 48 hour batch period at a maximum 0.34 lb OC/1,000 gallon batch assuming "worst case" coating formulation calculations in the applicant's air permit to install application and supplemental information

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provided by the applicant. Therefore, compliance with the hourly and annual emission limitation is assumed as long as the permittee does not exceed the operational restriction or manufactures a coating that results in more emission than the "worse case" coating.

- 2.b** The restrictions to potential to emit (PTE) for emission units at this facility, as documented by the permittee in a spreadsheet, will ensure that the individual hazardous air pollutant (IHAP), and total combined hazardous air pollutant (TCHAP) and organic compound (OC), emissions will not exceed the Title V and MACT applicability thresholds of 10 tons IHAP and/or 25 tons TCHAP emissions and 100 tons OC per rolling, 12-month period, respectively.

Therefore, the permittee, by complying with these federally enforceable terms and conditions for emission units, as listed in this permit, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.

¹A 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.

B. Operational Restrictions

1. All OC emissions generated during pump-in and solvent blending in emissions units shall vented to a control device that achieves a minimum 95% removal of OC emissions.
2. The permittee shall not blend and pump to the fill line more than 15 batches of coating per month from this emission unit.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records for each batch of paint produced in the thin and shade tanks:
 - a. the identification of the formulation, date and volume of grind pumped into the tank;
 - b. the volume of each solvent added during each batch, in either pounds or gallons;

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- c. a calculation of the liquid organic material content in percent by weight solvent in the final product with a determination of the photochemical reactivity of the coating; and
- d. the cumulative number of batches of coatings blended and pumped to the fill line from this emission unit.

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2. The permittee shall monitor for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000. The permittee shall maintain a monthly record on the OVM Log.

The permittee shall maintain a record of all OVM Logs on file, which shall be made available to representatives of the Ohio EPA, upon request.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
 - a. each month during which 15 batches of coating were blended and pumped to a fill line from this emission unit;
 - b. each month during which OVM was not performed;
 - c. each instance when a corrective action, that was to be performed as a result of an OVM, was not implemented; and
 - d. each day during which a higher emitting coating is manufactured as compared to the "worse case" coating.

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

2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. This reporting requirement may be satisfied by including and identifying the specific emissions data for this emissions unit in the annual Fee Emission Report.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
OC emissions shall not exceed 0.34 lb/batch.

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Applicable Compliance Method:

Compliance shall be determined by using the Air Pollutant Emissions Module (APEM) based on PlantWare Batch Recipes (Sherwin-Williams, March 1999) the method described in the Emission Inventory Improvement Program (EIIP), Chapter 8 "Preferred and Alternative Methods for Estimating Air Emissions from Paint and Ink Manufacturing Facilities" and by a 100% capture efficiency assumption and monitoring to confirm the 95% destruction efficiency. Therefore, compliance with the batch limitation is assumed as long as the permittee does not manufacture a coating that results in more emission than the "worse case" coating and the permittee monitors for OC concentrations at a minimum of one time per month in accordance with the Procedure for Organic Vapor Monitoring (OVM) attached to the letter submitted to Ohio EPA, CDO on December 13, 2000.

- b. **Emission Limitation:**
OC emissions shall not exceed 0.03 ton per year.

Applicable Compliance Method:

Compliance shall be assumed as long as the permittee does not exceed the monthly batch emission restriction because the emission is based on the maximum potential to emit.

F. Miscellaneous Requirements

1. The restrictions on the potential to emit for individual hazardous air pollutants (IHAP), as defined in Section 112(b) of Title III of the Clean Air Act, total combined hazardous air pollutants (TCHAP) and organic compounds (OC) established under OAC rule 3745-31-05(C) are as follows for the emissions units listed in terms F.2 and F.3 below:
 - a. the IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively, and
 - b. the total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation .Therefore, the permittee, by complying with these federally enforceable terms and conditions, will not be subject to Title V permitting and provisions in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Miscellaneous Coating Manufacturing 40 CFR Part 63 Subpart HHHHH.
2. The operational restriction on the potential to emit for IHAP, TCHAP and OC that

establish federally enforceable limitations are as follows:

- a. the permittee shall equip each solvent-based high speed disperser with a hatch cover that must be closed at all times except for solids addition and/or material sampling to capture OC emissions from emission units identified as P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171 and P172 with venting to a regenerative thermal oxidizer (RTO) that achieves a minimum 95% destruction of OC; and
 - b. the permittee shall equip each solvent-based thin and shade tank with a tightly fitting cover that must be closed at all times except for non-solvent material addition and/or material sampling to capture OC emissions from emission units identified as P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 with venting to a control device that achieves a minimum 95% removal of OC emissions.
3. The permittee shall maintain the following monthly records on-site to document compliance with the restrictions to potential to emit for OC, IHAP, and TCHAP. The records shall include a minimum of the following information for emissions units P013, P014, P016, P017, P021, P022, P023, P024, P025, P026, P027, P117, P118, P138, P170, P171, P172, P047, P048, P049, P050, P051, P052, P053, P054, P055, P056, P057, P058, P059, P060, P061, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P085, P086, P087, P088, P089, P090, P091, P092, P093, P094, P095, P096, P097, P098, P099, P100, P101, P102, P151, P157, P158, P159, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P120, P146, P147, P148, P149, P150, P160, P161, P162, P163, P164, P165, P173, P174, P175, P176, P177, and P178 along with any permanent exempt and de minimis emissions units:
- a. the calculated OC emissions for the current month, in pounds or tons, for each of the above emissions units;
 - b. the rolling, 12-month summation of OC emissions (i.e., the OC emissions from the current month added to the summation of the OC emissions from the previous 11 months) for all of the above emissions units;
 - c. the calculated IHAP emissions for the current month, in pounds or tons, for each of the above emissions units;
 - d. the calculated TCHAP emissions for the current month, in pounds or tons, for

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each of the above emissions units;

- e. the rolling 12-month summation of IHAP emissions (i.e., the IHAP emissions from the current month added to the summation of the IHAP emissions from the previous 11 months) for all of the above emissions units;
 - f. the rolling 12-month summation of TCHAP emissions (i.e., the TCHAP emissions from the current month added to the summation of the TCHAP emissions from the previous 11 months) for all of the above emissions units; and
 - g. the rolling 12-month summation of OC, IHAP, TCHAP emissions from permanent exempt and de minimis emissions units.
4. The permittee shall submit quarterly deviation (excursion) reports for deviations (excursions) associated with exceedences of the following emission limitations and operational restrictions:
- a. the rolling 12-month IHAP and TCHAP emission limitations listed in term F.1; and
 - b. the rolling, 12-month OC emission limitation listed in term F.1.

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

5. Compliance with the emission limitations in Part II, section F.1 of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitation:
The IHAP and TCHAP emissions shall not exceed 9.9 tons and 24.9 tons as a rolling, 12-month summation, respectively.

Applicable Compliance Method:
Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.
 - b. Emission Limitation:
The total OC emissions shall not exceed 99.9 tons as a rolling, 12-month summation.

Sherwin Williams Company
PTI Application: 01 00100
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Facility ID: 012504118

Emissions Unit ID: P165

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements specified in section F.3 of this permit.

6. The permit to install for these emissions units in this permit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutants: 1-methoxy-2-propanol; cyclohexanone; methyl isobutyl ketone; methyl n-amyl ketone; toluene

TLV (ug/m3): 368,000; 96,299; 204,826; 233,497; 188,405

Maximum Hourly Emission Rate (lbs/hr): 7.2 - stack; 42.54 - fugitive

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,852; 633; 3,852; 3,852; 3,852.

MAGLC (ug/m3): 8,776; 2,389; 4,877; 5,560; 4,486

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack

diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

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

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.