



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL
SUMMIT COUNTY**

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: 16-02156

DATE: 11/20/2001

Baker McMillen Company
Carl Sauers
3688 Wyoga Lake Road
Stow, OH 44224

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

ARAQMD



**Permit To Install
Terms and Conditions**

**Issue Date: 11/20/2001
Effective Date: 11/20/2001**

FINAL PERMIT TO INSTALL 16-02156

Application Number: 16-02156
APS Premise Number: 1677110035
Permit Fee: **\$700**
Name of Facility: Baker McMillen Company
Person to Contact: Carl Sauers
Address: 3688 Wyoga Lake Road
Stow, OH 44224

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3688 Wyoga Lake Road
Stow, Ohio**

Description of proposed emissions unit(s):
4 coating lines.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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Baker McMillen Company
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Issued: 11/20/2001

Facility ID: 1677110035

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	99.5
Ind. HAP	9.95
Total HAP	24.5

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>
Dip Tank - existing source	OAC rule 3745-31-02(A)(2)	The requirements of this rule also include the requirements of OAC rule 3745-21-07(G)(2). 1.48 lbs/hr volatile organic compound (VOC) 6.5 tpy VOC
	OAC rule 3745-31-05(D)	Combined annual coating input usage rates* and combined annual emissions from all facility emissions units (P002, R002 - R004) shall not exceed the following as 12-month summations: 99.5 tpy VOC*; 24.5 tpy combined hazardous air pollutants (HAP); and 9.95 tpy individual HAP. See A.2.a - A.2.d below.
	OAC rule 3745-21-07(G)(2)	See A.2.e below. *annual VOC input rates equivalent to annual VOC emission rates and are based upon 100% of the solvent in the

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Baker

PTI A

Issued: 11/20/2001

Emissions Unit ID: **P002**

coating materials being emitted.

2. Additional Terms and Conditions

2.a The combined annual coating usage input rates* and combined annual emissions from the entire facility (P002, R002 - R004) shall not exceed the following as rolling, 12-month summations:

- i. 99.5 tons of volatile organic compounds (VOC);*#
- ii. 24.5 tons of all hazardous air pollutants (HAP); and
- iii. 9.95 tons of any individual HAP.

On any day in which photochemically reactive materials are used in an emissions unit, all photochemically reactive and non-photochemically reactive emissions are counted as OC emissions.

2.b The potential emissions [as defined by OAC rule 3745-77-01(BB)] of HAPs as identified in Section 112(b) of Title III of the Clean Air Act from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs, based upon rolling, 12-month summations.

2.c To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative coating usage input rates* and emissions levels specified in the following table:

Month	Maximum Allowable Cumulative Coating Usage Input Rates and Emissions of VOC (tons)*	Maximum Allowable Cumulative Emissions of Individual HAP (tons)	Maximum Allowable Cumulative Emissions Combined HAP (tons)
1	8.3	0.82	2.0
1-2	16.6	1.64	4.0
1-3	24.9	2.46	6.0
1-4	33.2	3.28	8.0
1-5	41.5	4.10	10.0
1-6	49.8	4.92	12.0
1-7	58.0	5.74	14.0
1-8	66.3	6.56	16.0
1-9	74.6	7.38	18.0
1-10	82.9	8.20	20.0
1-11	91.2	9.02	22.0

1-12	99.5	9.95	24.5
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- 2.d** After the first 12 calendar months of operation following the issuance of this permit, compliance with the facility-wide coating usage input rates limitation and VOC and HAP emission limitations shall be based upon a rolling, 12-month summation of the applicable coating usage input rates and the annual emission limitations, in tons.
- 2.e** The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each coating and cleanup material employed in emissions units P002, R002 - R004:
 - a. the name and identification number of each coating, as applied;
 - b. the total VOC content, in pounds of VOC per gallon, excluding water and exempt solvents of each coating and cleanup material, as applied;
 - c. the individual HAP content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
 - d. the total combined HAP content of each coating, in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (c)];
 - e. the number of gallons of each coating employed;
 - f. the name and identification of each cleanup material employed;
 - g. the individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
 - h. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (g)];

Emissions Unit ID: **P002**

- i. the number of gallons of each cleanup material employed;
 - j. the total individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP, the sum of (c) times (e) for all of the coatings plus the sum of (g) times (i) for all of the cleanup materials];
 - k. the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (e) for all of the coatings plus the sum of (h) times (i) for all of the cleanup materials];
 - l. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (b) times (e) for all of the coatings plus the sum of (b) times (i) for all of the cleanup materials];
 - m. the rolling, 12-month summation of the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per year [sum of (1) for the previous 12 calendar months];
 - n. the rolling, 12-month summation of individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (j) for the previous 12 calendar months];
 - o. the rolling, 12-month summation of the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (k) for the previous 12 calendar months]
2. The permittee shall collect and record the following information for each day for the coating operation:
- a. the company identification for each coating and cleanup material employed;
 - b. the number of gallons of each coating and cleanup material employed;
 - c. the VOC content of each coating and cleanup material, in pounds per gallon;
 - d. the total number of hours the emissions unit was in operation; and
 - e. the average hourly VOC emission rate for all coatings and cleanup materials, in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any

thinning solvents added at the emissions unit.]

3. The permit to install for emissions units P002, R002 - R004 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isobutyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 15,023

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Xylene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,318

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl n-Amyl Ketone

TLV (mg/m³): 233

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 690

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 5,547

Pollutant: Isopropyl Acetate

TLV (mg/m³): 1040

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 10,292

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 24,761

Pollutant: Ethanol

TLV (mg/m³): 1,880

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,977

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 44,761

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Emissions Unit ID: P002

Pollutant: Isopropyl Alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 2,918

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 23,404

Pollutant: Butyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 9,413

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Acetone

TLV (mg/m³): 1,780

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31,378

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 42,381

Pollutant: Ethylbenzene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 314

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: 2-n-Butoxy-1-ethanol

TLV (mg/m³): 121

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 910

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2,881

Pollutant: 1-Butanol

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 439.3

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl Alcohol

TLV (mg/m³): 262

Maximum Hourly Emission Rate (pounds/hour): 135.6

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Baker

PTI A

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Emissions Unit ID: **P002**

Predicted 1 hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) ($\mu\text{g}/\text{m}^3$): 6238

Pollutant: Methyl isobutyl ketone

TLV (mg/m³): 205

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31.38

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4881

Pollutant: Toluene

TLV (mg/m³): 188

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 376.5

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4476

Pollutant: 1-Propanol

TLV (mg/m³): 151.5

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 721.68

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 3607

Pollutant: Stoddard Solvent

TLV (mg/m³): 525

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 125.2

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 12,500

Pollutant: 1,2,4-Trimethylbenzene

TLV (mg/m³): 123

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2929

Pollutant: Propan-2-ol, 1-methoxy-

TLV (mg/m³): 369

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,568.9

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 8785

Pollutant: Ethyl acetate

TLV (mg/m³): 1440

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 4,706.7

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):34286

Pollutant: Petroleum ether

TLV (mg/m³):350

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 3,137.8

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8333

4. 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 still 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.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

5. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted,

change in stack/exhaust parameters, etc.);

- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month facility emission limitation for VOC, individual HAP, and combined HAP, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedance of the maximum allowable cumulative coating usage input rate levels and emission levels.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the average hourly mass emission limitation for VOC, and the actual VOC emissions for each such period.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Conditions of this permit.
4. The permittee shall submit annual reports which specify the, VOC, total HAP, and individual HAP emissions, in tons, for P002, R002 - R004. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:

99.5 tpy VOC for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

- b. Emission Limitation:

24.5 tpy of all HAPs for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section

Baker McMillen Company
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Issued

Facility ID: 1677110035

Emissions Unit ID: **P002**

C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

c. Emission Limitation:

9.95 tpy of any individual HAP for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

d. Emission Limitation

1.48 pounds/hour VOC
6.5 tpy VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

F. Miscellaneous Requirements

1. The terms and conditions of this Permit to Install shall supersede all the air pollution control requirements for this emissions unit contained in Permit to Install number 16-01714.

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>
Walk-in spray booth - spray coating of wood parts - existing source	OAC rule 3745-31-02(A)(2)	The requirements of this rule also include the requirements of OAC rule 3745-21-07(G)(2).
		45.2 lbs/hr volatile organic compound (VOC) 99.5 tpy VOC
	OAC rule 3745-31-05(D)	Combined annual coating input usage rates* and combined annual emissions from all facility emissions units (P002, R002 - R004) shall not exceed the following as 12-month summations:
		99.5 tpy VOC*; 24.5 tpy combined hazardous air pollutants (HAP); and 9.95 tpy individual HAP. See A.2.a - A.2.d below.
	OAC rule 3745-21-07(G)(2)	During any day in which photochemically reactive materials are employed:

Baker
PTI A
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Emissions Unit ID: **R002**

8.0 lbs/hr Organic Compounds
 (OC)
 40 lbs/day OC

*annual VOC input rates equivalent to annual VOC emission rates and are based upon 100% of the solvent in the coating materials being emitted.

2. Additional Terms and Conditions

2.a The combined annual coating usage input rates* and combined annual emissions from the entire facility (P002, R002 - R004) shall not exceed the following as rolling, 12-month summations:

- i. 99.5 tons of volatile organic compounds (VOC);*#
- ii. 24.5 tons of all hazardous air pollutants (HAP); and
- iii. 9.95 tons of any individual HAP.

On any day in which photochemically reactive materials are used in an emissions unit, all photochemically reactive and non-photochemically reactive emissions are counted as OC emissions.

2.b The potential emissions [as defined by OAC rule 3745-77-01(BB)] of HAPs as identified in Section 112(b) of Title III of the Clean Air Act from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs, based upon rolling, 12-month summations.

2.c To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative coating usage input rates* and emissions levels specified in the following table:

Month	Maximum Allowable Cumulative Coating Usage Input Rates and Emissions of VOC (tons)*	Maximum Allowable Cumulative Emissions of Individual HAP (tons)	Maximum Allowable Cumulative Emissions Combined HAP (tons)
1	8.3	0.82	2.0
1-2	16.6	1.64	4.0

1-3	24.9	2.46	6.0
1-4	33.2	3.28	8.0
1-5	41.5	4.10	10.0
1-6	49.8	4.92	12.0
1-7	58.0	5.74	14.0
1-8	66.3	6.56	16.0
1-9	74.6	7.38	18.0
1-10	82.9	8.20	20.0
1-11	91.2	9.02	22.0
1-12	99.5	9.95	24.5

- 2.d** After the first 12 calendar months of operation following the issuance of this permit, compliance with the facility-wide coating usage input rates limitation and VOC and HAP emission limitations shall be based upon a rolling, 12-month summation of the applicable coating usage input rates and the annual emission limitations, in tons.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each coating and cleanup material employed in emissions units P002, R002 - R004:
 - a. the name and identification number of each coating, as applied;
 - b. the total VOC content, in pounds of VOC per gallon, excluding water and exempt solvents of each coating and cleanup material, as applied;
 - c. the individual HAP content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
 - d. the total combined HAP content of each coating, in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (c)];
 - e. the number of gallons of each coating employed;
 - f. the name and identification of each cleanup material employed;
 - g. the individual HAP content for each HAP of each cleanup material, in pounds of individual

HAP per gallon of cleanup material, as applied;

- h. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (g)];
 - i. the number of gallons of each cleanup material employed;
 - j. the total individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP, the sum of (c) times (e) for all of the coatings plus the sum of (g) times (i) for all of the cleanup materials];
 - k. the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (e) for all of the coatings plus the sum of (h) times (i) for all of the cleanup materials];
 - l. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (b) times (e) for all of the coatings plus the sum of (b) times (i) for all of the cleanup materials];
 - m. the rolling, 12-month summation of the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per year [sum of (l) for the previous 12 calendar months];
 - n. the rolling, 12-month summation of individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (j) for the previous 12 calendar months];
 - o. the rolling, 12-month summation of the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (k) for the previous 12 calendar months]; and
2. The permittee shall collect and record the following information for each day for the coating operation:
- a. the company identification for each coating and cleanup material employed;
 - b. an identification as to whether any coatings or cleanup materials employed are photochemically reactive materials;
 - c. the number of gallons of each coating and cleanup material employed;

- d. the OC or VOC content of each coating and cleanup material, in pounds per gallon;
- e. the total number of hours the emissions unit was in operation;
- f. the average hourly VOC emission rate for all coatings and cleanup materials, in pounds per hour (average);
- g. for each day during which a photochemically reactive material is employed, the total OC emission rate for all coatings and cleanup materials, in pounds per day; and
- h. for each day during which a photochemically reactive material is employed, the average hourly OC emission rate for all coatings and cleanup materials, i.e., (g)/(e), in pounds per hour (average).

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

3. The permit to install for emissions units P002, R002 - R004 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isobutyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 15,023

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Xylene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,318

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

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Facility ID: 1677110035

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Pollutant: Methyl n-Amyl Ketone

TLV (mg/m³): 233

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 690

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 5,547

Pollutant: Isopropyl Acetate

TLV (mg/m³): 1040

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 10,292

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 24,761

Pollutant: Ethanol

TLV (mg/m³): 1,880

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,977

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 44,761

Pollutant: Isopropyl Alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 2,918

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 23,404

Pollutant: Butyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 9,413

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Acetone

TLV (mg/m³): 1,780

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31,378

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 42,381

Pollutant: Ethylbenzene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 314

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: 2-n-Butoxy-1-ethanol

TLV (mg/m³): 121

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 910

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2,881

Pollutant: 1-Butanol

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

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Predicted 1 hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 439.3

Maximum Acceptable Ground-Level Concentration (MAGLC) ($\mu\text{g}/\text{m}^3$): 10,333

Pollutant: Methyl Alcohol

TLV (mg/m³): 262

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 6238

Pollutant: Methyl isobutyl ketone

TLV (mg/m³): 205

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31.38

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4881

Pollutant: Toluene

TLV (mg/m³): 188

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 376.5

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):4476

Pollutant: 1-Propanol

TLV (mg/m³): 151.5

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 721.68

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):3607

Pollutant: Stoddard Solvent

TLV (mg/m³):525

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 125.2

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):12,500

Pollutant: 1,2,4-Trimethylbenzene

TLV (mg/m³):123

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2929

Pollutant: Propan-2-ol, 1-methoxy-

TLV (mg/m³): 369

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,568.9

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Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8785

Pollutant: Ethyl acetate

TLV (mg/m³):1440

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 4,706.7

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):34286

Pollutant: Petroleum ether

TLV (mg/m³):350

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 3,137.8

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8333

4. 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 still 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.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

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

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month facility emission limitation for VOC, individual HAP, and combined HAP, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedance of the maximum allowable cumulative coating usage input rate levels and emission levels.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the average hourly mass emission limitation for VOC, and the actual VOC emissions for each such period.
3. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Conditions of this permit.
5. The permittee shall submit annual reports which specify the VOC, total HAP, and individual HAP

Emissions Unit ID: **R002**

emissions, in tons, for P002, R002 - R004. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
99.5 tpy VOC for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

b. Emission Limitation:

24.5 tpy of all HAPs for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

c. Emission Limitation:

9.95 tpy of any individual HAP for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

d. Emission Limitation:

45.2 lbs/hr volatile organic compound (VOC)
99.5 tpy VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

e. Emission Limitation

8.0 lbs/hr Organic Compounds (OC)

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40 lbs/day OC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

F. Miscellaneous Requirements

1. The terms and conditions of this Permit to Install shall supersede all the air pollution control requirements for this emissions unit contained in Permit to Install number 16-01714.

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>
Binks spray booth #1 - spray coating of wood parts - existing source	OAC rule 3745-31-02(A)(2)	The requirements of this rule also include the requirements of OAC rule 3745-21-07(G)(2). 45.2 lbs/hr volatile organic compound (VOC) 99.5 tpy VOC
	OAC rule 3745-31-05(D)	Combined annual coating input usage rates* and combined annual emissions from all facility emissions units (P002, R002 - R004) shall not exceed the following as 12-month summations: 99.5 tpy VOC*; 24.5 tpy combined hazardous air pollutants (HAP); and 9.95 tpy individual HAP. See A.2.a - A.2.d below.
	OAC rule 3745-21-07(G)(2)	During any day in which photochemically reactive materials are employed:

8.0 lbs/hr Organic Compounds (OC)
 40 lbs/day OC

*annual VOC input rates equivalent to annual VOC emission rates and are based upon 100% of the solvent in the coating materials being emitted.

2. Additional Terms and Conditions

2.a The combined annual coating usage input rates* and combined annual emissions from the entire facility (P002, R002 - R004) shall not exceed the following as rolling, 12-month summations:

- i. 99.5 tons of volatile organic compounds (VOC);*#
- ii. 24.5 tons of all hazardous air pollutants (HAP); and
- iii. 9.95 tons of any individual HAP.

On any day in which photochemically reactive materials are used in an emissions unit, all photochemically reactive and non-photochemically reactive emissions are counted as OC emissions.

2.b The potential emissions [as defined by OAC rule 3745-77-01(BB)] of HAPs as identified in Section 112(b) of Title III of the Clean Air Act from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs, based upon rolling, 12-month summations.

2.c To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative coating usage input rates* and emissions levels specified in the following table:

Month	Maximum Allowable Cumulative Coating Usage Input Rates and Emissions of VOC (tons)*	Maximum Allowable Cumulative Emissions of Individual HAP (tons)	Maximum Allowable Cumulative Emissions Combined HAP (tons)
1	8.3	0.82	2.0
1-2	16.6	1.64	4.0
1-3	24.9	2.46	6.0
1-4	33.2	3.28	8.0

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1-5	41.5	4.10	10.0
1-6	49.8	4.92	12.0
1-7	58.0	5.74	14.0
1-8	66.3	6.56	16.0
1-9	74.6	7.38	18.0
1-10	82.9	8.20	20.0
1-11	91.2	9.02	22.0
1-12	99.5	9.95	24.5

- 2.d** After the first 12 calendar months of operation following the issuance of this permit, compliance with the facility-wide coating usage input rates limitation and VOC and HAP emission limitations shall be based upon a rolling, 12-month summation of the applicable coating usage input rates, and the annual emission limitations, in tons.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each coating and cleanup material employed in emissions units P002, R002 - R004:
 - a. the name and identification number of each coating, as applied;
 - b. the total VOC content, in pounds of VOC per gallon, excluding water and exempt solvents of each coating and cleanup material, as applied;
 - c. the individual HAP content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
 - d. the total combined HAP content of each coating, in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (c)];
 - e. the number of gallons of each coating employed;
 - f. the name and identification of each cleanup material employed;
 - g. the individual HAP content for each HAP of each cleanup material, in pounds of individual

HAP per gallon of cleanup material, as applied;

- h. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (g)];
 - i. the number of gallons of each cleanup material employed;
 - j. the total individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP, the sum of (c) times (e) for all of the coatings plus the sum of (g) times (i) for all of the cleanup materials];
 - k. the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (e) for all of the coatings plus the sum of (h) times (i) for all of the cleanup materials];
 - l. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (b) times (e) for all of the coatings plus the sum of (b) times (i) for all of the cleanup materials];
 - m. the rolling, 12-month summation of the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per year [sum of (l) for the previous 12 calendar months];
 - n. the rolling, 12-month summation of individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (j) for the previous 12 calendar months];
 - o. the rolling, 12-month summation of the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (k) for the previous 12 calendar months]; and
2. The permittee shall collect and record the following information for each day for the coating operation:
- a. the company identification for each coating and cleanup material employed;
 - b. an identification as to whether any coatings or cleanup materials employed are photochemically reactive materials;
 - c. the number of gallons of each coating and cleanup material employed;

- d. the OC or VOC content of each coating and cleanup material, in pounds per gallon;
- e. the total number of hours the emissions unit was in operation;
- f. the average hourly VOC emission rate for all coatings and cleanup materials, in pounds per hour (average);
- g. for each day during which a photochemically reactive material is employed, the total OC emission rate for all coatings and cleanup materials, in pounds per day; and
- h. for each day during which a photochemically reactive material is employed, the average hourly OC emission rate for all coatings and cleanup materials, i.e., (g)/(e), in pounds per hour (average).

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

3. The permit to install for emissions units P002, R002 - R004 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isobutyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 15,023

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Xylene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,318

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl n-Amyl Ketone

TLV (mg/m³): 233

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 690

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 5,547

Pollutant: Isopropyl Acetate

TLV (mg/m³): 1040

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 10,292

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 24,761

Pollutant: Ethanol

TLV (mg/m³): 1,880

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,977

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 44,761

Pollutant: Isopropyl Alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 2,918

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 23,404

Pollutant: Butyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 9,413

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Acetone

TLV (mg/m³): 1,780

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31,378

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 42,381

Pollutant: Ethylbenzene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 314

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Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: 2-n-Butoxy-1-ethanol

TLV (mg/m³): 121

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 910

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2,881

Pollutant: 1-Butanol

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 439.3

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl Alcohol

TLV (mg/m³): 262

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 6238

Pollutant: Methyl isobutyl ketone

TLV (mg/m³): 205

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31.38

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4881

Pollutant: Toluene

TLV (mg/m³): 188

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 376.5

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):4476

Pollutant: 1-Propanol

TLV (mg/m³): 151.5

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 721.68

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):3607

Pollutant: Stoddard Solvent

TLV (mg/m³):525

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 125.2

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):12,500

Pollutant: 1,2,4-Trimethylbenzene

TLV (mg/m³):123

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2929

Pollutant: Propan-2-ol, 1-methoxy-

TLV (mg/m³): 369

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,568.9

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8785

Pollutant: Ethyl acetate

TLV (mg/m³):1440

Maximum Hourly Emission Rate (pounds/hour): 135.6

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Predicted 1 hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 4,706.7

Maximum Acceptable Ground-Level Concentration (MAGLC) ($\mu\text{g}/\text{m}^3$): 34286

Pollutant: Petroleum ether

TLV (mg/m³):350

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 3,137.8

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8333

4. 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.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

5. 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.);

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- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month facility emission limitation for VOC, individual HAP, and combined HAP, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedance of the maximum allowable cumulative coating usage input rate levels and emission levels.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the average hourly mass emission limitation for VOC, and the actual VOC emissions for each such period.
3. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Conditions of this permit.
5. The permittee shall submit annual reports which specify the VOC, total HAP, and individual HAP emissions, in tons, for P002, R002 - R004. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
- 99.5 tpy VOC for entire facility
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.
- b. Emission Limitation:
- 24.5 tpy of all HAPs for entire facility
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.
- c. Emission Limitation:
- 9.95 tpy of any individual HAP for entire facility
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.
- d. Emission Limitation:
- 45.2 lbs/hr volatile organic compound (VOC)
99.5 tpy VOC
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

e. Emission Limitation

8.0 lbs/hr Organic Compounds (OC)
40 lbs/day OC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

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Emissions Unit ID: **R004**

F. Miscellaneous Requirements

1. The terms and conditions of this Permit to Install shall supersede all the air pollution control requirements for this emissions unit contained in Permit to Install number 16-01714.

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>
Protectaire spray booth #1 - spray coating of wood parts	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include the requirements of OAC rules 3745-31-05(D) and 3745-21-07(G)(2).
	OAC rule 3745-31-05(D)	45.2 lbs/hr volatile organic compound (VOC) 99.5 tpy VOC Combined annual coating input usage rates* and combined annual emissions from all facility emissions units (P002, R002 - R004) shall not exceed the following as 12-month summations:
	OAC rule 3745-21-07(G)(2)	99.5 tpy VOC*; 24.5 tpy combined hazardous air pollutants (HAP); and 9.95 tpy individual HAP. See A.2.a - A.2.d below. During any day in which photochemically reactive materials are

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employed:

8.0 lbs/hr Organic Compounds

(OC)

40 lbs/day OC

*annual VOC input rates equivalent to annual VOC emission rates and are based upon 100% of the solvent in the coating materials being emitted.

2. Additional Terms and Conditions

2.a The combined annual coating usage input rates* and combined annual emissions from the entire facility (P002, R002 - R004) shall not exceed the following as rolling, 12-month summations:

- i. 99.5 tons of volatile organic compounds (VOC);*#
- ii. 24.5 tons of all hazardous air pollutants (HAP); and
- iii. 9.95 tons of any individual HAP.

On any day in which photochemically reactive materials are used in an emissions unit, all photochemically reactive and non-photochemically reactive emissions are counted as OC emissions.

2.b The potential emissions [as defined by OAC rule 3745-77-01(BB)] of HAPs as identified in Section 112(b) of Title III of the Clean Air Act from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs, based upon rolling, 12-month summations.

2.c To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative coating usage input rates* and emissions levels specified in the following table:

Month	Maximum Allowable Cumulative Coating Usage Input Rates and Emissions of VOC (tons)*	Maximum Allowable Cumulative Emissions of Individual HAP (tons)	Maximum Allowable Cumulative Emissions Combined HAP (tons)
1	8.3	0.82	2.0

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1-2	16.6	1.64	4.0
1-3	24.9	2.46	6.0
1-4	33.2	3.28	8.0
1-5	41.5	4.10	10.0
1-6	49.8	4.92	12.0
1-7	58.0	5.74	14.0
1-8	66.3	6.56	16.0
1-9	74.6	7.38	18.0
1-10	82.9	8.20	20.0
1-11	91.2	9.02	22.0
1-12	99.5	9.95	24.5

- 2.d** After the first 12 calendar months of operation following the issuance of this permit, compliance with the facility-wide coating usage input rates limitation and VOC and HAP emission limitations shall be based upon a rolling, 12-month summation of the applicable coating usage input rates, and the annual emission limitations, in tons.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each coating and cleanup material employed in emissions units P002, R002 - R004:
 - a. the name and identification number of each coating, as applied;
 - b. the total VOC content, in pounds of VOC per gallon, excluding water and exempt solvents of each coating and cleanup material, as applied;
 - c. the individual HAP content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
 - d. the total combined HAP content of each coating, in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (c)];
 - e. the number of gallons of each coating employed;
 - f. the name and identification of each cleanup material employed;

- g. the individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
 - h. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (g)];
 - i. the number of gallons of each cleanup material employed;
 - j. the total individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP, the sum of (c) times (e) for all of the coatings plus the sum of (g) times (i) for all of the cleanup materials];
 - k. the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (e) for all of the coatings plus the sum of (h) times (i) for all of the cleanup materials];
 - l. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (b) times (e) for all of the coatings plus the sum of (b) times (i) for all of the cleanup materials];
 - m. the rolling, 12-month summation of the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons per year [sum of (l) for the previous 12 calendar months];
 - n. the rolling, 12-month summation of individual HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (j) for the previous 12 calendar months];
 - o. the rolling, 12-month summation of the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per year [the sum of (k) for the previous 12 calendar months]
2. The permittee shall collect and record the following information for each day for the coating operation:
- a. the company identification for each coating and cleanup material employed;
 - b. an identification as to whether any coatings or cleanup materials employed are photochemically reactive materials;

- c. the number of gallons of each coating and cleanup material employed;
- d. the OC or VOC content of each coating and cleanup material, in pounds per gallon;
- e. the total number of hours the emissions unit was in operation;
- f. the average hourly VOC emission rate for all coatings and cleanup materials, in pounds per hour (average);
- g. for each day during which a photochemically reactive material is employed, the total OC emission rate for all coatings and cleanup materials, in pounds per day; and
- h. for each day during which a photochemically reactive material is employed, the average hourly OC emission rate for all coatings and cleanup materials, i.e., (g)/(e), in pounds per hour (average).

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

3. The permit to install for emissions units P002, R002 - R004 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Isobutyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 15,023

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Xylene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,318

Emissions Unit ID: **R004**Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl n-Amyl Ketone

TLV (mg/m³): 233

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 690Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 5,547

Pollutant: Isopropyl Acetate

TLV (mg/m³): 1040

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 10,292Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 24,761

Pollutant: Ethanol

TLV (mg/m³): 1,880

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,977Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 44,761

Pollutant: Isopropyl Alcohol

TLV (mg/m³): 983

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 2,918Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 23,404

Pollutant: Butyl Acetate

TLV (mg/m³): 713

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 9,413Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 16,976

Pollutant: Acetone

TLV (mg/m³): 1,780

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31,378Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 42,381

Pollutant: Ethylbenzene

TLV (mg/m³): 434

Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 314
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: 2-n-Butoxy-1-ethanol
TLV (mg/m³): 121
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 910
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2,881

Pollutant: 1-Butanol
TLV (mg/m³): 434
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 439.3
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 10,333

Pollutant: Methyl Alcohol
TLV (mg/m³): 262
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 6238

Pollutant: Methyl isobutyl ketone
TLV (mg/m³): 205
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 31.38
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4881

Pollutant: Toluene
TLV (mg/m³): 188
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 376.5
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 4476

Pollutant: 1-Propanol
TLV (mg/m³): 151.5
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 721.68
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 3607

Pollutant: Stoddard Solvent
TLV (mg/m³): 525

Emissions Unit ID: **R004**

Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 125.2
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):12,500

Pollutant: 1,2,4-Trimethylbenzene
TLV (mg/m³):123
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 94.14
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³): 2929

Pollutant: Propan-2-ol, 1-methoxy-
TLV (mg/m³): 369
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 1,568.9
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8785

Pollutant: Ethyl acetate
TLV (mg/m³):1440
Maximum Hourly Emission Rate (pounds/hour): 135.6
Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 4,706.7
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):34286

Pollutant: Petroleum ether
TLV (mg/m³):350
Maximum Hourly Emission Rate (pounds/hour): 135.6

Predicted 1 hour Maximum Ground-Level Concentration (ug/m³): 3,137.8

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m³):8333

4. 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 still 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.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

5. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

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

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month facility emission limitation for VOC, individual HAP, and combined HAP, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedance of the maximum allowable cumulative coating usage input rate levels and emission levels.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the average hourly mass emission limitation for VOC, and the actual VOC emissions for each such period.
3. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual OC emissions for each such day.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Conditions of this permit.
5. The permittee shall submit annual reports which specify the VOC, total HAP, and individual HAP emissions, in tons, for P002, R002 - R004. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

99.5 tpy VOC for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

b. Emission Limitation:

24.5 tpy of all HAPs for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

c. Emission Limitation:

9.95 tpy of any individual HAP for entire facility

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.1 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the HAP content of each coating and cleanup material.

d. Emission Limitation:

45.2 lbs/hr volatile organic compound (VOC)

5.65 lbs VOC per gallon coating

99.5 tpy VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

e. Emission Limitation

8.0 lbs/hr Organic Compounds (OC)

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40 lbs/day OC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section C.2 of these T&Cs. Formulation data or USEPA Method 24 shall be used to determine the VOC content of each coating and cleanup material.

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Issued: 11/20/2001

Emissions Unit ID: **R004**

F. Miscellaneous Requirements

1. The terms and conditions of this Permit to Install shall supersede all the air pollution control requirements for this emissions unit contained in Permit to Install number 16-01714.