



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

5/31/2016

Certified Mail

Doug Pulvere
 KDM Signs, Inc.
 10450 N MEDALLION DR
 EVENDALE, OH 45241

Yes	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1431153991
 Permit Number: P0120517
 Permit Type: Renewal
 County: Hamilton

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

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

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: SWOQA



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
KDM Signs, Inc.**

Facility ID:	1431153991
Permit Number:	P0120517
Permit Type:	Renewal
Issued:	5/31/2016
Effective:	5/31/2016
Expiration:	5/31/2021



**Division of Air Pollution Control
Permit-to-Install and Operate**

for
KDM Signs, Inc.

Table of Contents

Authorization	1
A. Standard Terms and Conditions	3
1. What does this permit-to-install and operate ("PTIO") allow me to do?.....	4
2. Who is responsible for complying with this permit?	4
3. What records must I keep under this permit?	4
4. What are my permit fees and when do I pay them?.....	4
5. When does my PTIO expire, and when do I need to submit my renewal application?	4
6. What happens to this permit if my project is delayed or I do not install or modify my source?	5
7. What reports must I submit under this permit?	5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?	5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ...	5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?	6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?	6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently?	6
13. Can I transfer this permit to a new owner or operator?.....	7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?	7
15. What happens if a portion of this permit is determined to be invalid?	7
B. Facility-Wide Terms and Conditions.....	8
C. Emissions Unit Terms and Conditions	12
1. P001, P001	13
2. P002, P002	17
3. R004, R004.....	21
4. R005, R005.....	26
5. R006, R006.....	31
6. R007, R007.....	37
7. R008, Six-color UV Sheetfed Offset Press- Planeta 664	43



Final Permit-to-Install and Operate
KDM Signs, Inc.
Permit Number: P0120517
Facility ID: 1431153991
Effective Date: 5/31/2016

Authorization

Facility ID: 1431153991
Application Number(s): A0055603
Permit Number: P0120517
Permit Description: Renewal of FEPTIO for three (3) screen printing units and two (2) sheetfed offset printing units using UV and low-VOC inks and two (2) associated support activities.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 5/31/2016
Effective Date: 5/31/2016
Expiration Date: 5/31/2021
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

KDM Signs, Inc.
10450 N MEDALLION DR
EVENDALE, OH 45215

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0120517

Permit Description: Renewal of FEPTIO for three (3) screen printing units and two (2) sheetfed offset printing units using UV and low-VOC inks and two (2) associated support activities.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P001
Company Equipment ID:	P001
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P002
Company Equipment ID:	P002
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R004
Company Equipment ID:	R004
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R005
Company Equipment ID:	R005
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R006
Company Equipment ID:	R006
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R007
Company Equipment ID:	R007
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R008
Company Equipment ID:	Six-color UV Sheetfed Offset Press- Planeta 664
Superseded Permit Number:	P0107604
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
KDM Signs, Inc.
Permit Number: P0120517
Facility ID: 1431153991
Effective Date: 5/31/2016

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
KDM Signs, Inc.
Permit Number: P0120517
Facility ID: 1431153991
Effective Date: 5/31/2016

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) 2., 3., 4., and 5.
2. The total allowable emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units P001 (Ink room cleanup), P002 (Screen Reclamation process), R002 (Viking screen printing dryer), R004 (Inline 1 - five unit screen printing press for UV inks), R005 (Inline 2 - four unit screen printing press for UV inks), R006 (Komori 640 printing press – five unit screen printing press for UV inks), R007 (Inline 3 – five unit screen printing press for UV inks), R008 (Planeta 664 press – six color sheetfed offset press), the Komori 526 printing press, and screen printing operations and associated cleanup operations identified as LSP1, LSP2, LSP3, P1, P2, P3, E1, E2, S1, and S2 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.
3. The permittee shall collect and record the following information each month for all materials containing hazardous air pollutants (HAPs) that are applied in the emission units or air contaminant sources listed in 2 above:
 - a) The name and identification number of each coating employed;
 - b) The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c) 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 (b)];
 - d) The number of gallons of each coating employed;
 - e) The name and identification of each cleanup material employed;
 - f) The individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
 - g) 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 (f)];
 - h) The number of gallons of each cleanup material employed;

- i) The total individual HAP emissions for each HAP from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) for each coating plus the sum of (f) times (h) times (1 - the solvent recovery rate) for each cleanup material];
- j) The total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each coatings plus the sum of (g) times (h) times (1 - the solvent recovery rate) for each cleanup material];
- k) The updated rolling, 12-month summation of the individual HAP emissions, in pounds or tons. This shall include the information for the current month and the proceeding eleven calendar months; and
- l) The updated rolling, 12-month summation of the combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Department of Environmental Services contact. This information does not have to be kept on an individual emissions unit basis.

4. The permittee shall submit quarterly deviation (excursion) reports that identify:

- a) All deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

See emission limitations in 2. above;
- b) the probable cause of each deviation (excursion);
- c) any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d) the magnitude and duration of each deviation (excursion);

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

5. Compliance with the emission limitations in 2. of these terms and conditions shall be determined in accordance with the following method(s) identified below:

- e) Emissions Limitations:



Final Permit-to-Install and Operate

KDM Signs, Inc.

Permit Number: P0120517

Facility ID: 1431153991

Effective Date: 5/31/2016

The total allowable emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units P001 (Ink room cleanup), P002 (Screen Reclamation process), R002 (Viking screen printing dryer), R004 (Inline 1 - five unit screen printing press for UV inks), R005 (Inline 2 - four unit screen printing press for UV inks), the Kamori 640 printing press, the Kamori 526 printing press, and screen printing operations and associated cleanup operations identified as LSP1, LSP2, LSP3, P1, P2, P3, E1, E2, S1, and S2 shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the HAP emission limitations shall be demonstrated by the methods outlined in the recordkeeping requirements in 3. above.



Final Permit-to-Install and Operate
KDM Signs, Inc.
Permit Number: P0120517
Facility ID: 1431153991
Effective Date: 5/31/2016

C. Emissions Unit Terms and Conditions

1. P001, P001

Operations, Property and/or Equipment Description:

Ink room cleanup.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. d)(2)

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)b.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>a) Organic compound (OC) emissions shall</p> <p>b) not exceed 0.44 pound per hour and</p> <p>c) 1.95 tons per year.</p> <p>See b)(2)b., c)(1), and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(D)	See Section B.2.

- (2) Additional Terms and Conditions
 - a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations OC content limitations and usage limitations.
 - b. The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.
 - c. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.
- c) Operational Restrictions
 - (1) The total amount of cleanup material employed in this emissions unit shall not exceed 275 gallons per year.
 - (2) All used solvent soaked rags from the clean-up of this emissions unit shall be stored in containers with tightly fitting lids.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - a. The company identification for each cleanup material (liquid organic material) employed;
 - b. The number of gallons of each cleanup material employed;
 - c. The organic compound content of each cleanup material, in pounds per gallon;
 - d. The vapor pressure of the cleanup material in mmHg; and
 - e. The total organic compound emission rate for all cleanup materials, in pounds per month (b x cd), or if the vapor pressure < 10 mmHg, (b x c) /2).
 - (2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified federally enforceable permit-to-install and operate (FEPTIO) prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit annual reports that specify the total amount of cleanup material employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 0.44 pound per hour and 1.95 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 1840 CFR Part 60, Appendix A



Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- (2) Compliance with the OC content and usage limitations in b)(2)b. and c)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Usage Limitation:

The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.

Applicable Compliance Method:

Compliance with the OC content limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the cleanup materials.

b. Usage Limitation:

The total amount of cleanup material employed in this emissions unit shall not exceed 275 gallons per year.

Applicable Compliance Method:

Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).

g) Miscellaneous Requirements

- (1) None.



2. P002, P002

Operations, Property and/or Equipment Description:

Screen Reclamation process

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2)
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	a) Organic compound (OC) emissions shall b) not exceed 2.77pounds per hour and c) 12.16 tons per year. See b)(2)b. and c)(1). The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
b.	OAC rule 3745-31-05(D)	See Section B.2.

- (2) Additional Terms and Conditions
- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations, and OC content and usage limitations.
 - b. The OC content of the screen reclamation solvent shall not exceed 6.08 pounds per gallon.
 - c. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.
- c) Operational Restrictions
- (1) The total amount of screen reclamation solvent employed in this emissions unit shall not exceed 4000 gallons per year.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - a. The company identification for each screen reclamation solvent employed
 - b. The number of gallons of screen reclamation solvent employed;
 - c. The organic compound content of each screen reclamation solvent, in pounds per gallon; and
 - d. The total organic compound emission rate for all screen reclamation solvents, in pounds per month (b x c).

[Note: The information must be for the screen reclamation solvent as employed, including any thinning solvents added at the emissions unit.]
 - (2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified federally enforceable permit-to-install and operate (FEPTIO) prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.
- e) Reporting Requirements
- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept

hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit annual reports that specify the total amount of cleanup material employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 2.77pounds per hour and 12.16 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

(2) Compliance with the OC content and usage limitations in b)(2)b. and c)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Usage Limitation:

The OC content of the screen reclamation solvent shall not exceed 6.08 pounds per gallon.

Applicable Compliance Method:

Compliance with the OC content limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the screen reclamation solvent.

b. Usage Limitation:

The total amount of screen reclamation solvent employed in this emissions unit shall not exceed 4000 gallons per year.

Applicable Compliance Method:

Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).

g) Miscellaneous Requirements

(1) None.

3. R004, R004

Operations, Property and/or Equipment Description:

Inline 1 - five unit screen printing press for UV inks

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2), d)(3), and d)(4)
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<ul style="list-style-type: none"> a) Organic compound (OC) emissions shall b) not exceed 2.6pounds per hour and c) 11.4 tons per year. <p>See b)(2)b., b)(2)c., c)(1), and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(D)	See Section B.2.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations, and OC content and usage limitations.
- b. Only UV cured inks shall be employed in this emissions unit.
- c. The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.
- d. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.

c) Operational Restrictions

- (1) The total amount of cleanup material employed in this emissions unit shall not exceed 3377 gallons per year.
- (2) All used solvent soaked rags from the clean-up of this emissions unit shall be stored in containers with tightly fitting lids.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon;
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per month (b x c);

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- (2) The PTIO application for this emissions units, R004 and R005, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic's Policy"), was applied to each pollutant emitted by this emissions unit using data from the permit application and the SCREEN3 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the

Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of dispersion modeling for the “worst case” pollutants:

Toxic Contaminant: methyl ethyl ketone

TLV (mg/m³): 590

Maximum Hourly Emission Rate (lbs/hr): 1.1

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 134

MAGLC (ug/m³): 14,047

- (3) 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 any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall conduct an evaluation to determine that the “Air Toxics Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxics Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienist (ACGIH);
 - 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(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- (4) If the permittee determines that the “Air Toxics 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 air toxic air contaminant not previously emitted, and a modification of the existing PTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final permit to install and operate prior to the change.

The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute” , ORC 3704.03(F):

- 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 Toxics Policy" ; and
- c. where computer modeling is performed, a copy of the computer model run(s) that show the results of the application of the "Air Toxics Policy" for the change.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit annual reports that specify the total amount of cleanup material employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 2.6pounds per hour and 11.4 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- (2) Compliance with the OC content limitations in b)(2) shall be determined in accordance with the following methods:

- a. Usage Limitation:

The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.

Applicable Compliance Method:

Compliance with the OC content limitation and ink limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the cleanup materials.

- (3) Compliance with the usage limitations in c)(1) shall be determined in accordance with the following methods:

- a. Usage Limitation:

The total amount of cleanup material employed in this emissions unit shall not exceed 3377 gallons per year.

Applicable Compliance Method:

- b. Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).

- g) Miscellaneous Requirements

- (1) None.

4. R005, R005

Operations, Property and/or Equipment Description:

Inline 2 - four unit screen printing press for UV inks

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2), d)(3) and d)(4).
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<ul style="list-style-type: none"> a) Organic compound (OC) emissions shall b) not exceed 2.2pounds per hour and c) 9.76 tons per year. <p>See b)(2)b., b)(2)c., c)(1), and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(D)	See Section B.2.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations, and OC content and usage limitations.
- b. Only UV cured inks shall be employed in this emissions unit.
- c. The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.
- d. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.

c) Operational Restrictions

- (1) The total amount of cleanup material employed in this emissions unit shall not exceed 2893 gallons per year.
- (2) All used solvent soaked rags from the clean-up of this emissions unit shall be stored in containers with tightly fitting lids.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon;
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per month (b x c);

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- (2) The PTIO application for this emissions units, R004 and R005, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic's Policy"), was applied to each pollutant emitted by this emissions unit using data from the permit application and the SCREEN3 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the

Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of dispersion modeling for the “worst case” pollutants:

Toxic Contaminant: methyl ethyl ketone

TLV (mg/m³): 590

Maximum Hourly Emission Rate (lbs/hr): 1.1

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 134

MAGLC (ug/m³): 14,047

- (3) 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 any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall conduct an evaluation to determine that the “Air Toxics Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxics Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienist (ACGIH);
 - 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(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- (4) If the permittee determines that the “Air Toxics 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 air toxic air contaminant not previously emitted, and a modification of the existing PTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final permit to install and operate prior to the change.

The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the [Toxic Air Contaminant Statute], ORC 3704.03(F):

- 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 Toxics Policy" ; and
- c. where computer modeling is performed, a copy of the computer model run(s) that show the results of the application of the "Air Toxics Policy" for the change.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit annual reports that specify the total amount of cleanup material employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 2.2pounds per hour and 9.76 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- (2) Compliance with the usage limitations in b)(2) shall be determined in accordance with the following methods:

- a. Usage Limitation:

The OC content of cleanup materials shall not exceed 6.75 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.

Applicable Compliance Method:

Compliance with the OC content limitation and ink limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the cleanup materials.

- (3) Compliance with the usage limitations in c)(1) shall be determined in accordance with the following methods:

- a. Usage Limitation:

The total amount of cleanup material employed in this emissions unit shall not exceed 2893 gallons per year.

Applicable Compliance Method:

- b. Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).

- g) Miscellaneous Requirements

- (1) None.

5. R006, R006

Operations, Property and/or Equipment Description:

Five unit screen printing line using UV inks

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2), d)(3) and d)(4).
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<ul style="list-style-type: none"> a) Organic compound (OC) emissions shall b) not exceed 2.1pounds per hour and c) 9.2 tons per year. <p>See b)(2)b., c)(1) and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(D)	See Section B.2.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations, and OC content and usage limitations.
- b. The organic compound (OC) content, as applied, of each material employed in this emissions unit shall not exceed the following limits:

<u>Material</u>	<u>Pounds OC/gallon, as applied</u>
Inks & Coatings	1.64
Fountain Solution 1	6.43
Fountain Solution 2	0.88
Cleanup Materials	7.53

- c. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.

c) Operational Restrictions

- (1) The maximum annual usage rates for this emissions unit shall not exceed the following:

<u>Material</u>	<u>Gallons per year</u>
Inks & Coatings	5000
Fountain Solution 1	75
Fountain Solution 2	200
Cleanup Materials	2300

- (2) All used solvent soaked rags from the clean-up of this emissions unit shall be stored in containers with tightly fitting lids.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - a. The company identification for each ink, coating, fountain solution and cleanup material employed;
 - b. The number of gallons of each ink, coating, fountain solution and cleanup material employed;

- c. The organic compound content of each ink, coating, fountain solution and cleanup material, in pounds per gallon;
- d. The total organic compound emission rate for all ink, coating, fountain solution and cleanup materials, in pounds per month (b x c);

[Note: The information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- (2) The PTIO application for this emissions unit, R006, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic's Policy"), was applied to each pollutant emitted by this emissions unit using data from the permit application and the SCREEN3 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of dispersion modeling for the "worst case" pollutants:

The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: 2-butoxyethanol

TLV (mg/m3): 96.6

Maximum Hourly Emission Rate (lbs/hr): 2.1

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 371

MAGLC (ug/m3): 2300

- (3) 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 any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall conduct an evaluation to determine that the "Air Toxics Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxics Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienist (ACGIH);

- 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(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- (4) If the permittee determines that the "Air Toxics 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 air toxic air contaminant not previously emitted, and a modification of the existing PTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final permit to install and operate prior to the change.

The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

- 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 Toxics Policy" ; and
 - c. where computer modeling is performed, a copy of the computer model run(s) that show the results of the application of the "Air Toxics Policy" for the change.
- e) Reporting Requirements
- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
 - (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this

permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

- (3) The permittee shall submit annual reports that specify the total number of gallons and OC emissions from the inks, coatings, fountain solutions and cleanup materials employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 2.1pounds per hour and 9.2 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- (2) Compliance with the usage limitations in b)(2)b. shall be determined in accordance with the following methods:

- a. Usage Limitation:

The organic compound (OC) content, as applied, of each material employed in this emissions unit shall not exceed the following limits:

<u>Material</u>	<u>Pounds OC/gallon, as applied</u>
Inks & Coatings	1.64
Fountain Solution 1	6.43
Fountain Solution 2	0.88



Cleanup Materials 7.53

Applicable Compliance Method:

Compliance with the OC content limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the inks, coatings, fountain solutions and cleanup materials(blanket wash, roller wash, metering roller wash and misc. cleanup materials).

(3) Compliance with the usage limitations in c)(1) shall be determined in accordance with the following methods:

a. Usage Limitation:

The maximum annual usage rates for this emissions unit shall not exceed the following:

<u>Material</u>	<u>Gallons per year</u>
Inks & Coatings	5000
Fountain Solution 1	75
Fountain Solution 2	200
Cleanup Materials	2300

Applicable Compliance Method:

Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).

g) Miscellaneous Requirements

(1) None.

6. R007, R007

Operations, Property and/or Equipment Description:

Five unit screen printing line using UV inks

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2), d)(3) and d)(4).
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<ul style="list-style-type: none"> a) Organic compound (OC) emissions shall b) not exceed 3.07pounds per hour and c) 13.45 tons per year. <p>See b)(2)b., b)(2)c., c)(1), and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(D)	See Section B.2.

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations, emission limitations, and OC content and usage limitations.
- b. Only UV cured inks shall be employed in this emissions unit.
- c. The OC content of cleanup materials shall not exceed 7.41 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.
- d. The hourly emission limitation is based on the emissions unit's potential to emit (PTE). Therefore, no hourly records are required to demonstrate compliance with the limitation.

c) Operational Restrictions

- (1) The total amount of cleanup material employed in this emissions unit shall not exceed 3630 gallons per year.
- (2) All used solvent soaked rags from the clean-up of this emissions unit shall be stored in containers with tightly fitting lids.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon;
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per month (b x c);

[Note: The information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- (2) The PTIO application for this emissions unit, R007, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic's Policy"), was applied to each pollutant emitted by this emissions unit using data from the permit application and the SCREEN3 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum

Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of dispersion modeling for the “worst case” pollutants:

The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or “worst case” toxic contaminant(s):

Toxic Contaminant: methyl ethyl ketone

TLV (mg/m³): 590

Maximum Hourly Emission Rate (lbs/hr): 0.696

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 85

MAGLC (ug/m³): 14,042

- (3) 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 any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall conduct an evaluation to determine that the “Air Toxics Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxics Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienist (ACGIH);
 - 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(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- (4) If the permittee determines that the “Air Toxics 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 air toxic air contaminant not previously emitted, and a modification of the existing PTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final permit to install and operate prior to the change.

The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

- 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 Toxics Policy" ; and
- c. where computer modeling is performed, a copy of the computer model run(s) that show the results of the application of the "Air Toxics Policy" for the change.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall submit annual reports that specify the total number of gallons and OC emissions from the inks, coatings, fountain solutions and cleanup materials employed during the previous calendar year. These reports shall be submitted by January 31 of each year.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 3.07pounds per hour and 13.45 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. Compliance with the annual OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- (2) Compliance with the usage limitations in b)(2)c. shall be determined in accordance with the following methods:

a. Usage Limitation:

The OC content of cleanup materials shall not exceed 7.41 pounds per gallon, unless the vapor pressure of the cleanup material is less than 10 mm Hg at standard temperature and pressure. The OC content of cleanup materials having vapor pressure less than 10 mmHg shall not exceed 13.50 pounds per gallon.

Applicable Compliance Method:

Compliance with the OC content limitation and ink limitation shall be demonstrated by the record keeping requirements in d)(1).

Formulation data or USEPA Method 24 (for coatings) shall be used to determine the OC contents of the inks, coatings, fountain solutions and cleanup materials(blanket wash, roller wash, metering roller wash and misc. cleanup materials).

- (3) Compliance with the usage limitations in c)(1) shall be determined in accordance with the following methods:

a. Usage Limitation:

The total amount of cleanup material employed in this emissions unit shall not exceed 3630 gallons per year.

Applicable Compliance Method:

Compliance with the material usage limitation shall be demonstrated by the record keeping requirements in d)(1).



Final Permit-to-Install and Operate
KDM Signs, Inc.
Permit Number: P0120517
Facility ID: 1431153991
Effective Date: 5/31/2016

g) Miscellaneous Requirements

- (1) None.

7. R008, Six-color UV Sheetfed Offset Press- Planeta 664

Operations, Property and/or Equipment Description:

Six-color UV Sheetfed Offset Press- Planeta 664

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. d)(2), d)(3) and d)(4).
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)c.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	<ul style="list-style-type: none"> a) Organic compound (OC) emissions shall b) not exceed 2.16 pounds per hour and c) 9.46 tons per year. <p>See b)(2)a.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).</p>
b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-31-05(D)	See Section B.2.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total organic compounds emissions from this air contaminant source since the total uncontrolled potential to emit organic compounds is less than ten tons per year.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for each month for this emissions unit:
 - 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 organic compound content of each coating and cleanup material, in pounds per gallon;
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per month (b x c);

[Note: The information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- (2) The PTIO application for this emissions unit, R008, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic's Policy"), was applied to each pollutant emitted by this emissions unit using data from the permit application and the SCREEN3 model (or other

Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of dispersion modeling for the “worst case” pollutants:

The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or [“worst case”] toxic contaminant(s):

Toxic Contaminant: methyl ethyl ketone

TLV (mg/m³): 590

Maximum Hourly Emission Rate (lbs/hr): 2.16

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 579

MAGLC (ug/m³): 14,042

- (3) 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 Toxics Policy” is satisfied. Consequently, prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall conduct an evaluation to determine that the “Air Toxics Policy” will still be satisfied. If, upon evaluation, the permittee determines that the “Air Toxics Policy” will not be satisfied, the permittee will not make the change. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as indicated in the most recent version of the handbook entitled “American Conference of Governmental Industrial Hygienist (ACGIH);
 - 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(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
- (4) If the permittee determines that the “Air Toxics 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 air toxic air contaminant not previously emitted, and a modification of the existing PTIO will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final permit to install and operate prior to the change.

The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

- 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 Toxics Policy" ; and
- c. where computer modeling is performed, a copy of the computer model run(s) that show the results of the application of the "Air Toxics Policy" for the change.

e) Reporting Requirements

- (1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Organic compound (OC) emissions shall not exceed 2.16 pounds per hour and 9.46 tons per year.

Applicable Compliance Method:

The hourly OC emissions limitation is based on the emissions unit's potential to emit. The annual emissions limitation was calculated by multiplying the short term emissions limitation by 8760 hours per year. Compliance with the annual



Final Permit-to-Install and Operate

KDM Signs, Inc.

Permit Number: P0120517

Facility ID: 1431153991

Effective Date: 5/31/2016

OC emissions limitation shall be demonstrated by the record keeping requirements in d)(1).

If required by the Hamilton County Department of Environmental Services or the Ohio EPA, the permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate(s) using the following test method(s):

Method 18 40 CFR Part 60, Appendix A

Method 24 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

g) Miscellaneous Requirements

(1) None.