



State of Ohio Environmental Protection Agency

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

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-04814

DATE: 2/9/00

Stevenson Photo Color Co
Joe Hamilton
5325 Ridge Ave
Cincinnati, OH 45213

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

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

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

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

Very truly yours,

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

CC: USEPA

HCDES



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: 2/9/00

FINAL PERMIT TO INSTALL 14-04814

Application Number: 14-04814
APS Premise Number: 1431074035
Permit Fee: **\$600**
Name of Facility: Stevenson Photo Color Co
Person to Contact: Joe Hamilton
Address: 5325 Ridge Ave
Cincinnati, OH 45213

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

**535 Wilmer Ave
Cincinnati, Ohio**

Description of proposed emissions unit(s):

One two-color sheetfed offset press, one five-color sheetfed offset press and one seven-color sheetfed offset press.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

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

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

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

14. Construction Compliance Certification

Stevenson Photo Color Co
PTI Application: 14-04814
Issued: 2/9/00

Facility ID: 1431074035

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	37.7
Ammonia	3.13
PM/PM10	0.033

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Limitations/Control Measures</u>	<u>Emissions</u>
2-Color Sheetfed Offset Press	OAC rule 3745-31-05(A)(3)	16.65 lbs/day* OC 3.05 TPY OC 2.5 lbs/month PM/PM10 0.015 TPY PM/PM10	
		*The daily emission limitation(s) outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with this limit.	
		See Term A.2.2.b	
	OAC rule 3745-21-07(G)	See Term A.2.2.f	
	OAC rule 3745-17-07(B)(1)	See Term A.2.2.g	
	OAC rule 3745-17-08(B)		

2. Additional Terms and Conditions

- 2.a Compliance with the OAC rule 3745-31-05 shall be demonstrated by OC content limits, use of non-photochemically reactive materials and compliance with the Air Toxics Policy.
- 2.b This emissions unit is exempt from the requirements of this rule because the materials employed by this unit are non-photochemically reactive materials (PRMs) as defined in OAC rule 3745-21-01(C)(5). The use of photochemically reactive materials is prohibited.

- 2.c The OC content of the inks employed in this emissions unit shall not exceed 1.72 pounds per gallon, as applied.
- 2.d The OC content of the fountain solution employed in this emissions unit shall not exceed 0.87 pound per gallon, as applied.
- 2.e The OC content of the cleanup material employed in this emissions unit shall not exceed 7.3 pounds per gallon.
- 2.f Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a three-minute average, except as specified by rule.
- 2.g The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

- 1. The annual usage rate of Howson Profit Plus Plate Cleaner (Du Pont registry number DP-92-28-8) shall not exceed 25 gallons per year.
- 2. To ensure that the evaporative OC/VOC loss from the hand cleanup process does not exceed more than 50% (by weight) from solvents having a vapor pressure of 10 mmHg (0.19 psia) or lower at 20 degrees Celsius (68 degrees Fahrenheit), all rags utilized in the cleanup process shall be stored in containers with tight fitting covers.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall collect and record the following information each month for each material employed in each emissions unit:
 - a. the company identification for each ink, fountain solution, starch and cleanup material employed;
 - b. a record of each ink ,fountain solution, and cleanup material employed in this emissions unit indicating whether or not the ink, fountain solution or cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5);
 - c. the number of gallons of each ink, fountain solution and cleanup material employed;
 - d. the organic compound content of each ink ,fountain solution and cleanup material in

pounds per gallon,

- e. the total OC emissions in tons per month $\{[(c) \text{ times } (d)] \text{ divided by } 2000\}$; and
- f. the number of pounds of starch employed.

Note: The ink information must be for the inks and fountain solutions as applied, including any thinning solvents or catalysts added at the emissions unit. Also, the definitions of "photochemically reactive" and "non-photochemically reactive" are based upon OAC rule 3745-21-01(C)(5).

- 2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

D. Reporting Requirements

- 1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying inks, fountain solutions or cleanup materials. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.
- 2. The permittee shall submit annual reports that specify the total OC emissions from the previous calendar year. These reports shall be submitted by January 31 of each year.
- 3. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

E. Testing Requirements

Stevenson Photo Color Co
PTI Application: 14-04914
Issued

Facility ID: 1431074035

Emissions Unit ID: R001

1. Compliance with the annual OC and PM/PM10 emission limitations in these terms and conditions shall be demonstrated by the required recordkeeping and reports outlined in Sections C and D of this permit.
2. Compliance with the OC content limitations outlined in Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section C. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.
3. Compliance with the fugitive particulate emissions limitation outlined in this permit shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Aliphatic Hydrocarbon

TLV (ug/m3): 10,000

Maximum Hourly Emission Rate (lbs/hr): 0.013

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 155

MAGLC (ug/m3): 238

Pollutant: Ethylene Glycol

TLV (ug/m3): 100,000

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 2381

Pollutant: 2-Butoxy Ethanol

TLV (ug/m3): 120,800

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 2876

Pollutant: Acetic Acid

TLV (ug/m3): 24,540

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 584

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a

"modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
5-Color Sheetfed Offset Press	OAC rule 3745-31-05(A)(3)	34.98 lbs/day* OC 6.38 TPY OC 2.5 lbs/month PM/PM10 0.015 TPY PM/PM10 *The daily emission limitation(s) outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with this limit. See Term A.2.2.b See Term A.2.2.f See Term A.2.2.g
	OAC rule 3745-21-07(G)	
	OAC rule 3745-17-07(B)(1)	
	OAC rule 3745-17-08(B)	

2. Additional Terms and Conditions

- 2.a Compliance with the OAC rule 3745-31-05 shall be demonstrated by OC content limits, use of non-photochemically reactive materials and compliance with the Air Toxics Policy.
- 2.b This emissions unit is exempt from the requirements of this rule because the materials employed by this unit are non-photochemically reactive materials (PRMs) as defined in OAC rule 3745-21-01(C)(5). The use of photochemically reactive materials is prohibited.

- 2.c The OC content of the inks employed in this emissions unit shall not exceed 1.72 pounds per gallon, as applied.
- 2.d The OC content of the fountain solution employed in this emissions unit shall not exceed 0.87 pound per gallon, as applied.
- 2.e The OC content of the cleanup material employed in this emissions unit shall not exceed 7.3 pounds per gallon.
- 2.f Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a three-minute average, except as specified by rule.
- 2.g The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

- 1. The annual usage rate of Howson Profit Plus Plate Cleaner (DuPont registry number DP-92-28-8) shall not exceed 25 gallons per year.
- 2. To ensure that the evaporative OC/VOC loss from the hand cleanup process does not exceed more than 50% (by weight) from solvents having a vapor pressure of 10 mmHg (0.19 psia) or lower at 20 degrees Celsius (68 degrees Fahrenheit), all rags utilized in the cleanup process shall be stored in containers with tight fitting covers.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall collect and record the following information each month for each material employed in each emissions unit:
 - a. the company identification for each ink, fountain solution, starch and cleanup material employed;
 - b. a record of each ink, fountain solution and cleanup material employed in this emissions unit indicating whether or not the ink, fountain solution or cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5);
 - c. the number of gallons of each ink, fountain solution and cleanup material employed;

Emissions Unit ID: R002

- d. the organic compound content of each ink, fountain solution and cleanup material in pounds per gallon,
- e. the total OC emissions in tons per month $\{[(c) \text{ times } (d)] \text{ divided by } 2000\}$; and
- f. the number of pounds of starch employed.

Note: The ink information must be for the inks and fountain solutions as applied, including any thinning solvents or catalysts added at the emissions unit. Also, the definitions of "photochemically reactive" and "non-photochemically reactive" are based upon OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying inks, fountain solutions or cleanup materials. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.
2. The permittee shall submit annual reports that specify the total OC emissions from the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the annual OC and PM/PM10 emission limitations in these terms and conditions shall be demonstrated by the required recordkeeping and reports outlined in Sections C and D of this permit.
2. Compliance with the OC content limitations outlined in Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section C. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.
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F. Miscellaneous Requirements

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Aliphatic Hydrocarbon

TLV (ug/m3): 10,000

Maximum Hourly Emission Rate (lbs/hr): 0.013

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 155

MAGLC (ug/m3): 238

Pollutant: Ethylene Glycol

TLV (ug/m3): 100,000

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 2381

Pollutant: 2-Butoxy Ethanol

TLV (ug/m3): 120,800

Stevenson Photo Color Co
PTI Application: 14-04814
Issued

Facility ID: 1431074035

Emissions Unit ID: R002

Maximum Hourly Emission Rate (lbs/hr): 2.47
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9
MAGLC (ug/m3): 2876

Pollutant: Acetic Acid
TLV (ug/m3): 24,540
Maximum Hourly Emission Rate (lbs/hr): 2.47
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9
MAGLC (ug/m3): 584

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

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- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

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- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the

permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
7-Color Sheetfed Offset Press	OAC rule 3745-31-05(A)(3)	154.91 lbs/day* OC 28.27 TPY OC 17.15 lbs/day* Ammonia 3.13 TPY Ammonia 0.5 lb/month PM/PM10 0.003 TPY PM/PM10
	OAC rule 3745-21-07(G)	See Term A.2.2.b
	OAC rule 3745-17-07(A)	See Term A.2.2.g
	OAC rule 3745-17-08	See Term A.2.2.h
		*The daily emission limitation(s) outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with this limit.

2. Additional Terms and Conditions

- 2.a Compliance with the OAC rule 3745-31-05 shall be demonstrated by OC content limits, usage limitations, use of non-photochemically reactive materials and compliance with the Air Toxics Policy.

- 2.b This emissions unit is exempt from the requirements of this rule because the materials employed by this unit are non-photochemically reactive materials (PRMs) as defined in OAC rule 3745-21-01(C)(5). The use of photochemically reactive materials is prohibited.
- 2.c The OC content of the inks employed in this emissions unit shall not exceed 1.72 pounds per gallon, as applied.
- 2.d The OC content of the fountain solution employed in this emissions unit shall not exceed 0.87 pound per gallon, as applied.
- 2.e The OC content of the coatings employed in this emissions unit shall not exceed 0.352 pound per gallon, as applied.
- 2.f The OC content of the cleanup material employed in this emissions unit shall not exceed 7.3 pounds per gallon.
- 2.g Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.h This emissions unit shall use a filter for control of fugitive particulate emissions.

B. Operational Restrictions

1. The maximum annual usage rates for emissions unit R003 shall not exceed 109,500 gallons of inks, 35,566 gallons of coating, 17,958 gallons of fountain solution, and 5201 gallons of cleanup material.
2. The annual usage rate of Howson Profit Plus Plate Cleaner (DuPont registry number DP-92-28-8) shall not exceed 25 gallons per year.
3. To ensure that the evaporative OC/VOC loss from the hand cleanup process does not exceed more than 50% (by weight) from solvents having a vapor pressure of 10 mmHg (0.19 psia) or lower at 20 degrees Celsius (68 degrees Fahrenheit), all rags utilized in the cleanup process shall be stored in containers with tight fitting covers.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each material employed in each emissions unit:

- a. the company identification for each ink, coating, fountain solution, starch and cleanup material employed;
- b. a record of each ink, coating, fountain solution and cleanup material employed in this emissions unit indicating whether or not the ink, coating, fountain solution or cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5);
- c. the number of gallons of each ink, coating, fountain solution and cleanup material employed;
- d. the organic compound content of each ink, coating, fountain solution and cleanup material in pounds per gallon,
- e. the total OC emissions in tons per month $\{[(c) \text{ times } (d)] \text{ divided by } 2000\}$,
- f. the ammonia content in pounds per gallon,
- g. the total ammonia emissions in tons per month $\{[(c) \text{ times } (f)] \text{ divided by } 2000\}$, and
- h. the number of pounds of starch employed.

Note: The ink information must be for the inks and fountain solutions as applied, including any thinning solvents or catalysts added at the emissions unit. Also, the definitions of "photochemically reactive" and "non-photochemically reactive" are based upon OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying inks, coatings, fountain solutions or cleanup materials. The notification shall include a copy of such record and shall be sent to the

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Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.

2. The permittee shall submit annual reports that identify any exceedances of the annual material usage limitations outlined in this permit, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit annual reports that specify the total OC emissions from the previous calendar year. These reports shall be submitted by January 31 of each year.
4. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) and the estimated total quantity of material(s) emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the annual OC and PM/PM10 emission limitations in these terms and conditions shall be demonstrated by the required recordkeeping and reports outlined in Sections C and D of this permit.
2. Compliance with the OC content limitations outlined in Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section C. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.
3. Compliance with the visible particulate emissions limitation outlined in this permit shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
4. Compliance with the usage limitations in term B.1 shall be demonstrated by the recordkeeping in term C.1

F. Miscellaneous Requirements

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit

were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: Aliphatic Hydrocarbon

TLV (ug/m3): 10,000

Maximum Hourly Emission Rate (lbs/hr): 0.013

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 155

MAGLC (ug/m3): 238

Pollutant: Ethylene Glycol

TLV (ug/m3): 100,000

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 2381

Pollutant: 2-Butoxy Ethanol

TLV (ug/m3): 120,800

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 2876

Pollutant: Acetic Acid

TLV (ug/m3): 24,540

Maximum Hourly Emission Rate (lbs/hr): 2.47

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 303.9

MAGLC (ug/m3): 584

Pollutant: Ammonia

TLV (ug/m3): 17,410

Maximum Hourly Emission Rate (lbs/hr): 0.71

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 101.1

MAGLC (ug/m3): 415

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a

"modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.