



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
BUTLER COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05415

DATE: 8/21/2003

Color Resolutions International LLC
Bryan Wisecup
630 Glendale-Milford Road
Cincinnati, OH 45215

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 8/21/2003
Effective Date: 8/21/2003**

FINAL PERMIT TO INSTALL 14-05415

Application Number: 14-05415
APS Premise Number: 1409030956
Permit Fee: **\$11850**
Name of Facility: Color Resolutions International LLC
Person to Contact: Bryan Wisecup
Address: 630 Glendale-Milford Road
Cincinnati, OH 45215

Location of proposed air contaminant source(s) [emissions unit(s)]:
**575 Quality Boulevard
Fairfield, Ohio**

Description of proposed emissions unit(s):
New Ink Mfg. Facility and Emission Units: Re-Location to Butler County.

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

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	64.61
PM/PM10	0.46

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>	OAC rule 3745-17-07(A)(1)
P001 - Extender Tank T-159 with Mixer	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.52 lbs/hr OC
30.36 lbs/day OC

0.05 lb/hr PM/PM10
0.11 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

3.21 TPY OC, based on a rolling, 12-month summation

See terms A.2.b., A.2.c and B.1

Exempt

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

See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 2 percent by weight.

- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 21,400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,783,333
1-2	3,566,667
1-3	5,350,000
1-4	7,133,333
1-5	8,916,666
1-6	10,700,000
1-7	12,483,333
1-8	14,266,666
1-9	16,049,999
1-10	17,833,332
1-11	19,616,665
1-12	21,400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this

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permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.

- e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup

materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation.

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

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: P002

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>
P002 - Extender Tank T-160 with Mixer	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-31-05(D)
	OAC rule 3745-21-07(G)(2)
	OAC rule 3745-17-11

OAC rule 3745-17-07(A)(1)

Applicable Emissions
 Limitations/Control Measures

2.02 lbs/hr OC
 41.55 lbs/day OC

0.04 lb/hr PM/PM10
 0.08 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

4.20 TPY OC, based on a rolling, 12-month summation

See terms A.2.b., A.2.c and B.1

Exempt

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

See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 4

percent by weight.

- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 14,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,166,667
1-2	2,333,333
1-3	3,500,000
1-4	4,666,667
1-5	5,833,333
1-6	7,000,000
1-7	8,166,667
1-8	9,333,333
1-9	10,500,000
1-10	11,666,667
1-11	12,833,333
1-12	14,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also,

during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.

- e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup

Emissions Unit ID: **P002**

materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - Extender Tank T-156 with Mixer	OAC rule 3745-31-05(A)(3)	2.44 lbs/hr OC 50.27 lbs/day OC
	OAC rule 3745-31-05(D)	0.02 lb/hr PM/PM10 0.03 TPY PM/PM10
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-11	See terms A.2.c., A.2.d, A.2.e and B.1
	OAC rule 3745-17-11	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.b.

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Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: **P003**

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of tight-fitting covers, use of a scrubber, OC content limitations, compliance with OC, HAP and PM-PM10 emission limitations and production limitations.
- 2.b** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.c** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling,

12-month summation of the HAP(s) emission figures.

- 2.e** The combined annual organic compound (OC) emissions from emissions units P003, P004 and P005 shall not exceed 8.63 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.72
1-2	1.47
1-3	2.16
1-4	2.85
1-5	3.62
1-6	4.32
1-7	5.01
1-8	5.78
1-9	6.47
1-10	7.16
1-11	7.94
1-12	8.63

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P003, P004 and P005 combined shall not exceed 15,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the

following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,250,000
1-2	2,500,000
1-3	3,750,000
1-4	5,000,000
1-5	6,250,000
1-6	7,500,000
1-7	8,750,000
1-8	10,000,000
1-9	11,250,000
1-10	12,500,000
1-11	13,750,000
1-12	15,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P003, P004 and P005 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this

permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
- h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; and
 - l. The updated rolling, 12-month summation of the combined HAP emissions, in pounds or

Emissions Unit ID: **P003**

tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P003, P004 and P005 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c or the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.c shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping

requirements as specified in term C.1.

5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P004 - Extender Tank T-157 with Mixer	OAC rule 3745-31-05(A)(3)	0.82 lbs/hr OC 16.76 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.c., A.2.d, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of tight-fitting covers, use of a scrubber, OC content limitations, compliance with OC, HAP and PM-PM10 emission limitations and production limitations.
- 2.b** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.c** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.e** The combined annual organic compound (OC) emissions from emissions units P003, P004 and P005 shall not exceed 8.63 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.72
1-2	1.47
1-3	2.16
1-4	2.85
1-5	3.62
1-6	4.32
1-7	5.01
1-8	5.78
1-9	6.47
1-10	7.16
1-11	7.94
1-12	8.63

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P003, P004 and P005 combined shall not exceed 15,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,250,000
1-2	2,500,000
1-3	3,750,000
1-4	5,000,000
1-5	6,250,000
1-6	7,500,000
1-7	8,750,000
1-8	10,000,000
1-9	11,250,000
1-10	12,500,000
1-11	13,750,000
1-12	15,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P003, P004 and P005 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the

Emissions Unit ID: P004

pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

- f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
- g. The amount of pigments (non-volatiles/solids) employed in tons.
- h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P003, P004 and P005 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c or the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.c shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.

Color Resolutions International LLC

PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: **P004**

4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P005 - Extender Tank T-158 with Mixer	OAC rule 3745-31-05(A)(3)	2.44 lbs/hr OC 50.27 lbs/day OC 0.02 lb/hr PM/PM10 0.03 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.c., A.2.d, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(A)(1)	See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of tight-fitting covers, use of a scrubber, OC content limitations, compliance with OC, HAP and PM-PM10 emission limitations and production limitations.
- 2.b** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.c** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

Color Resolutions International LLC

PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: **P005**

- 2.e** The combined annual organic compound (OC) emissions from emissions units P003, P004 and P005 shall not exceed 8.63 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.72
1-2	1.47
1-3	2.16
1-4	2.85
1-5	3.62
1-6	4.32
1-7	5.01
1-8	5.78
1-9	6.47
1-10	7.16
1-11	7.94
1-12	8.63

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P003, P004 and P005 combined shall not exceed 15,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,250,000
1-2	2,500,000
1-3	3,750,000
1-4	5,000,000

1-5	6,250,000
1-6	7,500,000
1-7	8,750,000
1-8	10,000,000
1-9	11,250,000
1-10	12,500,000
1-11	13,750,000
1-12	15,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P003, P004 and P005 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.

- h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).

Emissions Unit ID: **P005**

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P003, P004 and P005 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c or the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.c shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.

Emissions Unit ID: **P006**

5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	<u>Applicable Rules/Requirements</u>	
P006 - Extender Tank T-155 with Mixer	OAC rule 3745-31-05(A)(3)	OAC rule 3745-21-07(G)(2)
		OAC rule 3745-17-11
		OAC rule 3745-17-07(A)(1)
	OAC rule 3745-31-05(D)	

Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: **P006**

Applicable Emissions
Limitations/Control Measures

3.65 lbs/hr OC

75.09 lbs/day OC

0.01 lb/hr PM/PM10

0.02 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

5.08 TPY OC, based on a rolling, 12-month summation

See terms A.2.b., A.2.c and B.1

Exempt

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

See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit

(PTE). Therefore, no records are required to demonstrate compliance with these limits.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 3,386,667 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	282,222
1-2	564,445
1-3	846,667
1-4	1,128,889
1-5	1,411,111
1-6	1,693,334
1-7	1,975,556
1-8	2,257,778
1-9	2,540,000
1-10	2,822,223
1-11	3,104,445
1-12	3,386,667

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
- The name and identification of each batch of ink produced.

- b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];

- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

- 1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
- 2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.

3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P007 - Color Tank T-121 with Mixer	OAC rule 3745-31-05(A)(3)	1.47 lbs/hr OC 30.53 lbs/day OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-31-05(D)	See terms A.2.a, A.2.b, A.2.d. and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 4

percent by weight.

- 2.b** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compound (OC) emissions from emissions units P007 and P008 shall not exceed 5.10 TPY, based on a rolling, 12-month summation.

Color Resolutions International LLC

PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: **P007**

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.43
1-2	0.85
1-3	1.28
1-4	1.70
1-5	2.13
1-6	2.56
1-7	2.98
1-8	3.40
1-9	3.83
1-10	4.25
1-11	4.68
1-12	5.10

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P007 and P008 shall not exceed 17,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,411,000
1-2	2,822,000
1-3	4,250,000
1-4	5,661,000
1-5	7,083,322
1-6	8,500,000

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PTI A

Issued: 8/21/2003

Emissions Unit ID: **P007**

1-7

9,911,000

1-8

11,332,000

1-9	12,750,000
1-10	14,166,100
1-11	15,572,000
1-12	17,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P007 and P008:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per

pound of ink, as produced;

- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P007 and P008 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a or the OC emissions limitation in term A.2.d .
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b . shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P008 - Color Tank T-122 with Mixer	OAC rule 3745-31-05(A)(3)	1.67 lbs/hr OC 36.00 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-21-07(G)(2)	See terms A.2.a, A.2.b, A.2.d. and B.1 Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P007 and P008 shall not exceed 5.10 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
---------------	---

1-	0.43
1-2	0.85
1-3	1.28
1-4	1.70
1-5	2.13
1-6	2.56
1-7	2.98
1-8	3.40
1-9	3.83
1-10	4.25
1-11	4.68
1-12	5.10

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P007 and P008 shall not exceed 17,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,411,000
1-2	2,822,000
1-3	4,250,000
1-4	5,661,000
1-5	7,083,322
1-6	8,500,000
1-7	9,911,000

		1-8	11,332,000
1-9	12,750,000		
1-10	14,166,100		
1-11	15,572,000		
1-12	17,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P007 and P008:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;

- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b . The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P007 and P008 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a or the OC emissions limitation in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P009 - Color Tank T-125 with Mixer	OAC rule 3745-31-05(A)(3)	1.89 lbs/hr OC 37.72 lbs/day OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.
- 2.b The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P009, P010 and P011 shall not exceed 8.05 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

Maximum Allowable OC

Color Resolutions International LLC
PTI Application: 14-05415
Issued

Facility ID: 1409030956

Emissions Unit ID: **P009**

<u>Months</u>	<u>Emissions in Tons</u>
1-	0.67
1-2	1.34
1-3	1.93
1-4	2.68
1-5	3.35
1-6	4.03
1-7	4.69
1-8	5.37
1-9	6.04
1-10	6.71
1-11	7.37
1-12	8.05

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions units P009, P010 and P011 shall not exceed 14,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	1,166,667	
1-2	2,324,000	
1-3	3,500,000	
1-4	4,662,000	
1-5	5,833,333	
1-6	7,000,000	
1-7	8,162,000	
	1-8	9,333,240
1-9	10,500,000	
1-10	11,666,200	
1-11	12,824,000	
1-12	14,000,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P009, P010 and P011 combined :
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];

- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions

that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P009, P010 and P011 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c or the OC emissions limitation in term A.2.f.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.c shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P010 - Color Tank T-126 with Mixer	OAC rule 3745-31-05(A)(3)	1.89 lbs/hr OC 37.72 lbs/day OC
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.
- 2.b The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of

Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P009, P010 and P011 shall not exceed 8.05 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.67
1-2	1.34
1-3	1.93
1-4	2.68
1-5	3.35
1-6	4.03
1-7	4.69
1-8	5.37
1-9	6.04
1-10	6.71
1-11	7.37
1-12	8.05

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions units P009, P010 and P011 shall not exceed 14,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,166,667
1-2	2,324,000
1-3	3,500,000
1-4	4,662,000
1-5	5,833,333
1-6	7,000,000
1-7	8,162,000
	1-8 9,333,240
1-9	10,500,000

1-10	11,666,200
1-11	12,824,000
1-12	14,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P009, P010 and P011 combined :
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of

- ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

Color Resolutions International LLC

PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: P010

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P009, P010 and P011 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P011 - Color Tank T-127 with Mixer	OAC rule 3745-31-05(A)(3)	2.01 lbs/hr OC 38.64 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-21-07(G)(2)	See terms A.2.b, A.2.c, A.2.e and B.1
		Exempt

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.
- 2.b The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of

Emissions Unit ID: **P011**

Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P009, P010 and P011 shall not exceed 8.05 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

Maximum Allowable OC

<u>Months</u>	<u>Emissions in Tons</u>
1-	0.67
1-2	1.34
1-3	1.93
1-4	2.68
1-5	3.35
1-6	4.03
1-7	4.69
1-8	5.37
1-9	6.04
1-10	6.71
1-11	7.37
1-12	8.05

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions units P009, P010 and P011 shall not exceed 14,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	1,166,667	
1-2	2,324,000	
1-3	3,500,000	
1-4	4,662,000	
1-5	5,833,333	
1-6	7,000,000	
1-7	8,162,000	
	1-8	9,333,240
1-9	10,500,000	
1-10	11,666,200	

1-11	12,824,000
1-12	14,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P009, P010 and P011 combined :
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;

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- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

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D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c . The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P009, P010 and P011 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.c shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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Facility ID: 1409030956

Emissions Unit ID: P011

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P012 - 90 Black Process Tank T-134 with Mixer	OAC rule 3745-31-05(A)(3)	2.76 lbs/hr OC 55.20 lbs/day OC 0.02 lb/hr PM/PM10 0.02 TPY PM/PM10
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-21-07(G)(2)	See terms A.2.c., A.2.d, A.2.f. and B.1
	OAC rule 3745-17-11	Exempt
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.
- 2.b** Visible particulate emissions from the fabric filter exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.c** The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.e** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.f** The combined annual organic compounds (OC) emissions from emissions units P012 and P013 combined shall not exceed 5.40 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.45
1-2	0.90
1-3	1.35
1-4	1.80
1-5	2.25
1-6	2.70
1-7	3.15
1-8	3.60
1-9	4.05
1-10	4.50
1-11	4.95
1-12	5.40

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P012 and P013 combined shall not exceed 18,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,500,000
1-2	3,000,000
1-3	4,500,000
1-4	6,000,000
1-5	7,500,000
1-6	9,000,000
1-7	10,500,000
	1-8 12,000,000
1-9	13,500,000
1-10	15,000,000
1-11	16,500,000
1-12	18,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P012 and P013 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks

produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink plus the sum of (g) times (h) times (1 - the solvent recovery rate) for each

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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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P012 and P013 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c and the OC emissions limitations in term A.2.f.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.c shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.

- 6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

- 1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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>	
P013 - Black Tank T-135 with Mixer	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.00 lbs/hr OC
41.14 lbs/day OC

0.01 lb/hr PM/PM10
0.02 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

See terms A.2.c., A.2.d, A.2.f and B.1

Exempt

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

See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.
- 2.b** Visible particulate emissions from the fabric filter exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.c** The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of

Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.e** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.f** The combined annual organic compounds (OC) emissions from emissions units P012 and P013 combined shall not exceed 5.40 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

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<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.45
1-2	0.90
1-3	1.35
1-4	1.80
1-5	2.25
1-6	2.70
1-7	3.15
1-8	3.60
1-9	4.05
1-10	4.50
1-11	4.95
1-12	5.40

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P012 and P013 combined shall not exceed 18,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	1,500,000
1-2	3,000,000
1-3	4,500,000
1-4	6,000,000
1-5	7,500,000
1-6	9,000,000
1-7	10,500,000
	1-8 12,000,000
1-9	13,500,000

1-10	15,000,000
1-11	16,500,000
1-12	18,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P012 and P013 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:

- a. The name and identification number of each ink produced;
- b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.d. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P012 and P013 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c and the OC emissions limitations in term A.2.f.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.c shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.

5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P014 - Black Packout System T-136	OAC rule 3745-31-05(A)(3)	2.70 lbs/hr OC 64.80 lbs/day OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.a, A.2.b, A.2.d and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

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Emissions Unit ID: P014

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P014 and P015 combined shall not exceed 5.40 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.45
1-2	0.90
1-3	1.35
1-4	1.80
1-5	2.25

1-6	2.70
1-7	3.15
1-8	3.60
1-9	4.05
1-10	4.50
1-11	4.95
1-12	5.40

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, and the HAP and OC emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P014 and P015 combined shall not exceed 18,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	1,500,000	
1-2	3,000,000	
1-3	4,500,000	
1-4	6,000,000	
1-5	7,500,000	
1-6	9,000,000	
1-7	10,500,000	
		1-8 12,000,000
1-9	13,500,000	
1-10	15,000,000	
1-11	16,500,000	
1-12	18,000,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance

with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P014 and P015 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];

- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each

year. If no exceedances occurred during the reporting period then a report is required stating so.

2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P014 and P015 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitation in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P015 - Black Packout System T-137	OAC rule 3745-31-05(A)(3)	2.70 lbs/hr OC 38.70 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-21-07(G)(2)	See terms A.2.a, A.2.b, A.2.d and B.1
		Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

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Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: **P015**

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P014 and P015 combined shall not exceed 5.40 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.45
1-2	0.90
1-3	1.35
1-4	1.80
1-5	2.25

1-6	2.70
1-7	3.15
1-8	3.60
1-9	4.05
1-10	4.50
1-11	4.95
1-12	5.40

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, and the HAP and OC emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for emissions units P014 and P015 combined shall not exceed 18,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	1,500,000	
1-2	3,000,000	
1-3	4,500,000	
1-4	6,000,000	
1-5	7,500,000	
1-6	9,000,000	
1-7	10,500,000	
	1-8	12,000,000
1-9	13,500,000	
1-10	15,000,000	
1-11	16,500,000	
1-12	18,000,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink

production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P014 and P015 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;

- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

- 1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions

Emissions Unit ID: **P015**

that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P014 and P015 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P016 - Poly Premix Tank T-144 with Mixer	OAC rule 3745-31-05(A)(3)	0.98 lbs/hr OC 21.60 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-21-07(G)(2)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-17-11	Exempt
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

- 2.e** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	416,667
1-2	830,000
1-3	1,250,000
1-4	1,665,000
1-5	2,083,330

1-6	2,500,000	1-7	2,915,000
1-8	3,333,300	1-9	3,750,000
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.

tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.

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4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P017 - Poly Premix Tank MX-118 with Mixer	OAC rule 3745-31-05(A)(3)	0.69 lbs/hr OC 15.06 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from the fabric filter exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.e** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>		
1-	416,667		
1-2	830,000		
1-3	1,250,000		
1-4	1,665,000		
1-5	2,083,330		
1-6	2,500,000		
		1-7	2,915,000
1-8	3,333,300		
		1-9	3,750,000
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

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- f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

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2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P018 - Poly Premix Tank MX-146 with Mixer	OAC rule 3745-31-05(A)(3)	0.69 lbs/hr OC 15.06 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

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- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a

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rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	416,667

1-2	830,000		
1-3	1,250,000		
1-4	1,665,000		
1-5	2,083,330		
1-6	2,500,000		
		1-7	2,915,000
1-8	3,333,300		
		1-9	3,750,000
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC

emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
- h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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

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calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e..
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.

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5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P019 - Poly Shot Mill M-115 and Letdown Mixer	OAC rule 3745-31-05(A)(3)	0.98 lbs/hr OC 21.60 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-21-07(G)(2)	See terms A.2.a, A.2.b, A.2.d and B.1 Exempt

2. Additional Terms and Conditions

- 2.a** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.b** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
---------------	---

1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	416,667	
1-2	830,000	
1-3	1,250,000	
1-4	1,665,000	
1-5	2,083,330	
1-6	2,500,000	
	1-7	2,915,000
1-8	3,333,300	
	1-9	3,750,000
1-10	4,166,500	
1-11	4,580,000	
1-12	5,000,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance

with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;

- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions

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that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P020 - Drais Mill System and Letdown Tank	OAC rule 3745-31-05(A)(3)	0.69 lbs/hr OC 15.06 lbs/day OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-31-05(D)	See terms A.2.a., A.2.b, A.2.d. and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit’s potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
---------------	---

1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.

B. Operational Restrictions

- The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>		
1-	416,667		
1-2	830,000		
1-3	1,250,000		
1-4	1,665,000		
1-5	2,083,330		
1-6	2,500,000		
		1-7	2,915,000
1-8	3,333,300		

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		1-9	3,750,000
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;

- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month

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summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.

3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P021 - Premier Mill and Letdown Mixer	OAC rule 3745-31-05(A)(3)	0.69 lbs/hr OC 15.06 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-21-07(G)(2)	See terms A.2.a., A.2.b, A.2.d and B.1 Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 7.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
---------------	---

1-	0.63
1-2	1.25
1-3	1.80
1-4	2.50
1-5	3.12
1-6	3.75
1-7	4.37
1-8	5.00
1-9	5.63
1-10	6.25
1-11	6.87
1-12	7.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for emissions units P016, P017, P018, P019, P020 and P021 combined shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>		
1-	416,667		
1-2	830,000		
1-3	1,250,000		
1-4	1,665,000		
1-5	2,083,330		
1-6	2,500,000		
		1-7	2,915,000
1-8	3,333,300		
		1-9	3,750,000
1-10	4,166,500		

1-11	4,580,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P016, P017, P018, P019, P020 and P021 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;

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- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

Color Resolutions International LLC**PTI Application: 14-05415****Issued****Facility ID: 1409030956****Emissions Unit ID: P021**

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P016, P017, P018, P019, P020 and P021 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d .
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P022 - Newtrol Premix Tank T-131 with Mixer	OAC rule 3745-31-05(A)(3)	0.25 lbs/hr OC 4.22 lbs/day OC
		0.01 lb/hr PM/PM10 0.01 TPY PM/PM10
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

Color Resolutions International LLC

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Issued

Facility ID: 1409030956

Emissions Unit ID: P022

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P022, P023, P024 and P025 combined shall not exceed 1.50 TPY, based on a rolling, 12-month summation.

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Issued: 8/21/2003

Emissions Unit ID: **P022**

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.13
1-2	0.25
1-3	0.38
1-4	0.50
1-5	0.62
1-6	0.75
1-7	0.87
1-8	1.00
1-9	1.13
1-10	1.25
1-11	1.37
1-12	1.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	416,667

1-2	830,000		
1-3	1,200,000		
1-4	1,665,000		
1-5	2,083,330		
1-6	2,500,000		
		1-7	2,915,000
		1-8	3,333,300
1-9	3,750,000		
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P022, P023, P024 and P025 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC

emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
- h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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

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Emissions Unit ID: **P022**

calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P022, P023, P024 and P025 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.

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6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P023 - Newtrol Premix Tank T-104 with Mixer	OAC rule 3745-31-05(A)(3)	0.12 lbs/hr OC 2.47 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

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- 2.e** The combined annual organic compounds (OC) emissions from emissions units P022, P023, P024 and P025 combined shall not exceed 1.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.13
1-2	0.25
1-3	0.38
1-4	0.50
1-5	0.62
1-6	0.75
1-7	0.87
1-8	1.00
1-9	1.13
1-10	1.25
1-11	1.37
1-12	1.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	416,667
1-2	830,000
1-3	1,200,000
1-4	1,665,000
1-5	2,083,330

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1-6	2,500,000	1-7	2,915,000
		1-8	3,333,300
1-9	3,750,000		
1-10	4,166,500		
1-11	4,580,000		
1-12	5,000,000		

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P022, P023, P024 and P025 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.

tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P022, P023, P024 and P025 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.

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4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: P024

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P024 - Newtrol Shot Mill M-102 and Letdown Mixer	OAC rule 3745-31-05(A)(3)	0.19 lbs/hr OC 4.22 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) .
	OAC rule 3745-21-07(G)(2)	See terms A.2.a, A.2.b, A.2.d and B.1 Exempt

2. Additional Terms and Conditions

- 2.a** The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.b** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

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To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P022, P023, P024 and P025 combined shall not exceed 1.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
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1-	0.13
1-2	0.25
1-3	0.38
1-4	0.50
1-5	0.62
1-6	0.75
1-7	0.87
1-8	1.00
1-9	1.13
1-10	1.25
1-11	1.37
1-12	1.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC and emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for this emissions unit shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	416,667	
1-2	830,000	
1-3	1,200,000	
1-4	1,665,000	
1-5	2,083,330	
1-6	2,500,000	
		1-7 2,915,000
		1-8 3,333,300
1-9	3,750,000	
1-10	4,166,500	
1-11	4,580,000	

1-12 5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P022, P023, P024 and P025 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of

- ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

Color Resolutions International LLC**PTI Application: 14-05415****Issued****Facility ID: 1409030956**Emissions Unit ID: **P024**

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P022, P023, P024 and P025 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P025 - Newtrol Shot Mill M-103 and Letdown Mixer	OAC rule 3745-31-05(A)(3)	0.12 lbs/hr OC 2.47 lbs/day OC The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D)).
	OAC rule 3745-31-05(D)	See terms A.2.a, A.2.b, A.2.d and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 4 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

Emissions Unit ID: **P025**

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit’s potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P022, P023, P024 and P025 combined shall not exceed 1.50 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.13

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1-2	0.25
1-3	0.38
1-4	0.50
1-5	0.62
1-6	0.75
1-7	0.87
1-8	1.00
1-9	1.13
1-10	1.25
1-11	1.37
1-12	1.50

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 5,000,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	416,667	
1-2	830,000	
1-3	1,200,000	
1-4	1,665,000	
1-5	2,083,330	
1-6	2,500,000	
		1-7 2,915,000
		1-8 3,333,300
1-9	3,750,000	
1-10	4,166,500	

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Emissions Unit ID: P025

1-11	4,580,000
1-12	5,000,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P022, P023, P024 and P025 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];

- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

- 1. The permittee shall notify the Hamilton County Department of Environmental Services of any

Emissions Unit ID: **P025**

exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.

2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P022, P023, P024 and P025 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitation in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P026 - 40 inch Three Roll Mill M-109	OAC rule 3745-31-05(A)(3)	0.47 lbs/hr OC, excluding cleanup 10.00 lbs/day OC, excluding cleanup The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.a, A.2.b, A.2.d and B.1
	OAC rule 3745-21-07(G)(2)	Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

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<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P026 and P027 combined shall not exceed 2.98 TPY, including cleanup, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.25
1-2	0.49
1-3	0.74
1-4	0.99

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Emissions Unit ID: **P026**

1-5	1.24
1-6	1.49
1-7	1.74
1-8	1.98
1-9	2.24
1-10	2.48
1-11	2.73
1-12	2.98

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, and the HAP and OC emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for this emissions unit shall not exceed 400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	33,333
1-2	66,400
1-3	100,000
1-4	133,200
1-5	166,666
1-6	200,000
	1-7 233,200
1-8	266,400
1-9	300,000
1-10	333,320
1-11	366,400
1-12	400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink

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PTI A

Issued: 8/21/2003

Emissions Unit ID: **P026**

production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P026 and P027 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. The name and identification of each cleanup material combined.
 - g. The number of pounds of each cleanup material employed.
 - h. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.
 - i. The OC emissions from all cleaning materials, in pounds or tons (g-h).
 - j. The total OC emissions from all inks produced and cleanup materials employed, in pounds or tons (e + i).
 - k. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced and cleanup materials employed, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative combined OC emissions for each calendar month.
2. The permittee shall collect and record the following information each month for the entire facility:

- a. The name and identification number of each ink produced;
- b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
- c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
- d. The number of pounds of each ink produced;
- 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 pound of cleanup material, as applied;
- g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P026 and P027 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: P026

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P027 - 32 inch Three Roll Mill No. 5	OAC rule 3745-31-05(A)(3)	0.38 lbs/hr OC, excluding cleanup 8.00 lbs/day OC, excluding cleanup
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-21-07(G)(2)	See terms A.2.a, A.2.b, A.2.d and B.1 Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.b The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following

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Issued: 8/21/2003

Emissions Unit ID: **P027**

the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.
- 2.d** The combined annual organic compounds (OC) emissions from emissions units P026 and P027 combined shall not exceed 2.98 TPY, including cleanup, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.25
1-2	0.49
1-3	0.74
1-4	0.99

1-5	1.24
1-6	1.49
1-7	1.74
1-8	1.98
1-9	2.24
1-10	2.48
1-11	2.73
1-12	2.98

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, and the HAP and OC emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	33,333
1-2	66,400
1-3	100,000
1-4	133,200
1-5	166,666
1-6	200,000
	1-7 233,200
1-8	266,400
1-9	300,000
1-10	333,320
1-11	366,400
1-12	400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P026 and P027 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. The name and identification of each cleanup material combined.
 - g. The number of pounds of each cleanup material employed.
 - h. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.
 - i. The OC emissions from all cleaning materials, in pounds or tons (g-h).
 - j. The total OC emissions from all inks produced and cleanup materials employed, in pounds or tons (e + i).
 - k. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced and cleanup materials employed, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative combined OC emissions for each calendar month.

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall

be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.b. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P026 and P027 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.a and the OC emissions limitations in term A.2.d.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term A.2.a shall be determined by the record keeping requirements as specified in term C.1.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
3. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

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PTI A

Issued: 8/21/2003

Emissions Unit ID: **P027**

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P028 - FSH Mixer MX-106	OAC rule 3745-31-05(A)(3)	1.50 lbs/hr OC 25.71 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

Color Resolutions International LLC

PTI Application: 14-05415

Issued

Facility ID: 1409030956

Emissions Unit ID: P028

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P028,

P029, P030 and P031 combined shall not exceed 2.25 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.19
1-2	0.37
1-3	0.56
1-4	0.75
1-5	0.94
1-6	1.13
1-7	1.31
1-8	1.50
1-9	1.69
1-10	1.87
1-11	2.06
1-12	2.25

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P028, P029, P030 and P031 shall not exceed 600,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
1-	50,000
1-2	99,600
1-3	150,000
1-4	199,800
1-5	250,000
1-6	300,000
	1-7 349,800
1-8	399,960
1-9	450,000
1-10	499,980
1-11	549,600
1-12	600,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P028, P029, P030 and P031 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this

Emissions Unit ID: **P028**

permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P028, P029, P030 and P031 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitations in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

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2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P029 - FSH Mixer MX-107	OAC rule 3745-31-05(A)(3)	1.20 lbs/hr OC 20.57 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

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- 2.e** The combined annual organic compounds (OC) emissions from emissions units P028, P029, P030 and P031 combined shall not exceed 2.25 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.19
1-2	0.37
1-3	0.56
1-4	0.75
1-5	0.94
1-6	1.13
1-7	1.31
1-8	1.50
1-9	1.69
1-10	1.87
1-11	2.06
1-12	2.25

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P028, P029, P030 and P031 shall not exceed 600,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

Maximum allowable cumulative

<u>Months</u>	<u>ink production, in pounds</u>	
1-	50,000	
1-2	99,600	
1-3	150,000	
1-4	199,800	
1-5	250,000	
1-6	300,000	
	1-7	349,800
1-8	399,960	
1-9	450,000	
1-10	499,980	
1-11	549,600	
1-12	600,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P028, P029, P030 and P031 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks

produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P028, P029, P030 and P031 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the

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record keeping requirements as specified in term C.1.

3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

Color

PTI A

Issued: 8/21/2003

Emissions Unit ID: P030

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P030 - Bench Mixer No. 1	OAC rule 3745-31-05(A)(3)	0.30 lbs/hr OC 4.80 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.

- 2.e** The combined annual organic compounds (OC) emissions from emissions units P028, P029, P030 and P031 combined shall not exceed 2.25 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.19
1-2	0.37
1-3	0.56
1-4	0.75
1-5	0.94
1-6	1.13
1-7	1.31
1-8	1.50
1-9	1.69
1-10	1.87
1-11	2.06
1-12	2.25

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P028, P029, P030 and P031 shall not exceed 600,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	50,000	
1-2	99,600	
1-3	150,000	
1-4	199,800	
1-5	250,000	
1-6	300,000	
	1-7	349,800
1-8	399,960	
1-9	450,000	
1-10	499,980	
1-11	549,600	
1-12	600,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P028, P029, P030 and P031 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83). Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures

for each calendar month.

- f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed,

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in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P028, P029, P030 and P031 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

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2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P031 - Bench Mixer No. 2	OAC rule 3745-31-05(A)(3)	0.30 lbs/hr OC 4.80 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2., A.2.c and A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 50 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

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- 2.e** The combined annual organic compounds (OC) emissions from emissions units P028, P029, P030 and P031 combined shall not exceed 2.25 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.19
1-2	0.37
1-3	0.56
1-4	0.75
1-5	0.94
1-6	1.13
1-7	1.31
1-8	1.50
1-9	1.69
1-10	1.87
1-11	2.06
1-12	2.25

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P028, P029, P030 and P031 shall not exceed 600,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the

following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	50,000	
1-2	99,600	
1-3	150,000	
1-4	199,800	
1-5	250,000	
1-6	300,000	
	1-7	349,800
1-8	399,960	
1-9	450,000	
1-10	499,980	
1-11	549,600	
1-12	600,000	

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P028, P029, P030 and P031 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.0075 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this

permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e.

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for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from emissions units P028, P029, P030 and P031 combined for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping

requirements as specified in term C.2.

F. Miscellaneous Requirements

- 1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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>	OAC rule 3745-17-11
P032 - Roto Mixer M-112	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	

Applicable Emissions
Limitations/Control Measures

1.85 lbs/hr OC
26.65 lbs/day OC

0.01 lb/hr PM/PM10
0.01 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

0.31 TPY OC, based on a rolling, 12-month summation

See terms A.2.b, A.2.c and B.1

Exempt

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

See term A.2.a.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any exhaust stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 80 percent by weight.

- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 100,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	8,333	
1-2	16,667	
1-3	25,000	
1-4	33,333	
1-5	41,667	
1-6	50,000	
		1-7 58,333
1-8	66,667	
1-9	75,000	
1-10	83,333	
1-11	91,667	
		1-12 100,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the

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permittee shall record the cumulative ink production figures for each calendar month.

- e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b or the OC emissions limitation.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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>	OAC rule 3745-17-07(A)(1)
P033 - Roto Mixer M-113	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

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PTI A

Issued: 8/21/2003

Emissions Unit ID: **P033**

Applicable Emissions
Limitations/Control Measures

0.90 lbs/hr OC
26.65 lbs/day OC

0.01 lb/hr PM/PM10
0.01 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).

1.20 TPY OC, based on a rolling, 12-month summation

See terms A.2.b., A.2.c and B.1

Exempt

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

See term A.2.a

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit

(PTE). Therefore, no records are required to demonstrate compliance with these limits.

- 2.e Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for this emissions unit shall not exceed 800,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>	
1-	66,667	
1-2	133,333	
1-3	200,000	
1-4	266,667	
1-5	333,333	
1-6	400,000	
		1-7
		466,667
1-8	533,333	
1-9	600,000	
1-10	666,667	
1-11	733,333	
		1-12
		800,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.

- c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.
 - g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];

- h. The number of pounds of each cleanup material employed;
- i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content

limitations in term A.2.b or the OC emissions limitation.

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

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P034 - Roto Mixer M-114	OAC rule 3745-31-05(A)(3)	0.35 lbs/hr OC 26.65 lbs/day OC
		0.01 lb/hr PM/PM10 0.01 TPY PM/PM10
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b., A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions any stack shall not exceed 20 percent opacity, as a six-minute

average, except as specified by rule.

- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.e** The combined annual organic compounds (OC) emissions from emissions units P034, P035

and P036 combined shall not exceed 1.38 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.12
1-2	0.23
1-3	0.35
1-4	0.46
1-5	0.57
1-6	0.69
1-7	0.80
1-8	0.92
1-9	1.04
1-10	1.15
1-11	1.26
1-12	1.38

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P034, P035 and P036 shall not exceed 2,400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
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Facility ID: 1409030956

Emissions Unit ID: P034

1-	200,000		
1-2	398,400		
1-3	600,000		
1-4	800,000		
1-5	999,984		
1-6	1,200,000		
		1-7	1,399,200
1-8	1,599,840		
1-9	1,800,000		
1-10	1,999,920		
1-11	2,298,400		
		1-12	2,400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P034, P035 and P036 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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

Emissions Unit ID: **P034**

tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; and

1. 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitation in term A.2.e.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with

the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.

4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R035 - Roto Mixer M-115	OAC rule 3745-31-05(A)(3)	0.35 lbs/hr OC 26.65 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-31-05(D)	See terms A.2.b., A.2.c, A.2.e and B.1
	OAC rule 3745-21-07(G)(2)	Exempt
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See term A.2.a.

2. Additional Terms and Conditions

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- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no daily records are required to demonstrate compliance with these limits.

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- 2.e** The combined annual organic compounds (OC) emissions from emissions units P034, P035 and P036 combined shall not exceed 1.38 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-	0.12
1-2	0.23
1-3	0.35
1-4	0.46
1-5	0.57
1-6	0.69
1-7	0.80
1-8	0.92
1-9	1.04
1-10	1.15
1-11	1.26
1-12	1.38

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P034, P035 and P036 shall not exceed 2,400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>		
1-	200,000		
1-2	398,400		
1-3	600,000		
1-4	800,000		
1-5	999,984		
1-6	1,200,000		
		1-7	1,399,200
1-8	1,599,840		
1-9	1,800,000		
1-10	1,999,920		
1-11	2,298,400		
		1-12	2,400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P034, P035 and P036 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this

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permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; 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 preceeding eleven calender months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b. and the OC emissions limitations in term A.2.e
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

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2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.
3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P036 - Roto Mixer M-116	OAC rule 3745-31-05(A)(3)	0.35 lbs/hr OC 26.65 lbs/day OC 0.01 lb/hr PM/PM10 0.01 TPY PM/PM10
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-21-07(G)(2)	See terms A.2.b, A.2.c, A.2.e and B.1
	OAC rule 3745-17-11	Exempt The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-07-07(A)(1)	See term A.2.b.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** The maximum OC content for the inks produced in this emissions unit shall not exceed 10 percent by weight.
- 2.c** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.d** The hourly and daily emission limitations for OC and the hourly and annual emission limitations for PM-PM10 outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

Emissions Unit ID: P036

- 2.e The combined annual organic compounds (OC) emissions from emissions units P034, P035 and P036 combined shall not exceed 1.38 TPY, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the OC emission limits specified in the following table:

<u>Months</u>	<u>Maximum Allowable OC Emissions in Tons</u>
1-1	0.12
1-2	0.23
1-3	0.35
1-4	0.46
1-5	0.57
1-6	0.69
1-7	0.80
1-8	0.92
1-9	1.04
1-10	1.15
1-11	1.26
1-12	1.38

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual OC emission limits shall be based upon a rolling, 12-month summation of the OC emission figures.

- 2.f Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation, the use of a scrubber for particulate control and the HAP, OC and PM/PM10 emissions limitations.

B. Operational Restrictions

- 1. The maximum annual ink production rate for emissions units P034, P035 and P036 shall not exceed 2,400,000 pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>
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1-	200,000		
1-2	398,400		
1-3	600,000		
1-4	800,000		
1-5	999,984		
1-6	1,200,000		
		1-7	1,399,200
1-8	1,599,840		
1-9	1,800,000		
1-10	1,999,920		
1-11	2,298,400		
		1-12	2,400,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for emissions units P034, P035 and P036 combined:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons. Also, during the first 12 calendar months of operation

Emissions Unit ID: P036

following the issuance of this permit, the permittee shall record the cumulative OC emissions figures for each calendar month.

- g. The amount of pigments (non-volatiles/solids) employed in tons.
 - h. The PM-PM10 emissions, in pounds or tons, calculated by multiplying the tons of pigments (non-volatiles/solids) employed by an emission factor of 2 pounds PM-PM10/ton pigment (AP-42 Table 6.7-1; 5/83) and by a scrubber control efficiency of (1-.98).
2. The permittee shall collect and record the following information each month for the entire facility:
- a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; and

1. 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term A.2.c. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b and the OC emissions limitation in term A.2.e..
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Compliance with the percent by weight OC content limit in term A.2.b shall be determined by the record keeping requirements as specified in term C.1.

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3. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in term C.1.
4. Compliance with the PM-PM10 emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.7-1 (5/83) and the record keeping requirements as specified in term C.1.
5. Compliance with the ink production limitation in term B.1 shall be determined by the record keeping requirements as specified in term C.1.
6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P037 - 24 Pump Ink Dispensing System	OAC rule 3745-31-05(A)(3)	1.20 lbs/hr OC 23.04 lbs/day OC
	OAC rule 3745-31-05(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) . 2.43 TPY OC, based on a rolling, 12-month summation
	OAC rule 3745-21-07(G)(2)	See terms A.2.a., A.2.b and B.1 Exempt

2. Additional Terms and Conditions

- 2.a The maximum OC content for the inks produced in this emissions unit shall not exceed 20 percent by weight.

- 2.b** The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility 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.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit to install, the permittee shall not exceed the HAPs emission limits specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Single HAP Emissions In Tons</u>	<u>Maximum Allowable Combined HAP Emissions In Tons</u>
1	0.8	2.1
1-2	1.7	4.2
1-3	2.5	6.2
1-4	3.3	8.3
1-5	4.2	10.4
1-6	5.0	12.5
1-7	5.8	14.6
1-8	6.6	16.6
1-9	7.5	18.7
1-10	8.3	20.8
1-11	9.1	22.9
1-12	9.9	24.9

After the first 12 calendar months of operation following the issuance of this permit to install, compliance with the annual HAPs emission limits shall be based upon a rolling, 12-month summation of the HAP(s) emission figures.

- 2.c** The hourly and daily emission limitations for OC outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.d** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the production limitation, OC content limitation and the HAP and OC emissions limitations.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 1,620,000

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pounds, based on a rolling, 12-month summation.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production limits specified in the following table:

<u>Months</u>	<u>Maximum allowable cumulative ink production, in pounds</u>		
1-	135,000		
1-2	270,000		
1-3	405,000		
1-4	540,000		
1-5	675,000		
1-6	810,000		
		1-7	945,000
1-8	1,080,000		
1-9	1,215,000		
1-10	1,350,000		
1-11	1,485,000		
		1-12	1,620,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production limits shall be based on a rolling, 12-month summation of the ink production figures.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. The name and identification of each batch of ink produced.
 - b. The OC content for each ink produced, in percent by weight.
 - c. The amount of each ink produced, in pounds.
 - d. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the ink production figures, in pounds. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative ink production figures for each calendar month.
 - e. The OC emissions from each ink produced, in pounds or tons, calculated by multiplying the pounds of ink produced by an emission factor of 0.003 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).
 - f. Beginning after the first 12 calendar months of operation following the issuance of this

permit, the rolling, 12-month summation of the total combined OC emissions from all inks produced, in pounds or tons.

2. The permittee shall collect and record the following information each month for the entire facility:
 - a. The name and identification number of each ink produced;
 - b. The individual HAP content for each HAP of each ink in pounds of individual HAP per pound of ink, as produced;
 - c. The total combined HAP content of each ink in pounds of combined HAPs per pound of ink, as produced [sum all the individual HAP contents from (b)];
 - d. The number of pounds of each ink produced;
 - 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 pound of cleanup material, as applied;
 - g. The total combined HAP content of each cleanup material, in pounds of combined HAPs per pound of cleanup material, as applied [sum all the individual HAP contents from (f)];
 - h. The number of pounds of each cleanup material employed;
 - i. The total individual HAP emissions for each HAP from all inks produced and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times the emissions factor in C.1.e. for each ink 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 inks produced and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times the emissions factor in C.1.e. for each ink 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 preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; and

1. 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. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

* 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 a individual emissions unit basis.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations set forth in term *A.2.b*. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
2. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds from this emissions unit for each calendar month. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total ink production in pounds for each calendar month.
3. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term *A.2.a* and the OC emissions limitation.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the percent by weight OC content limit in term *A.2.a* shall be determined by the record keeping requirements as specified in term *C.1*.
2. Compliance with the OC emission limitations in this permit shall be determined in accordance with the emission factors provided by AP-42 Table 6.4-1 (5/83) and the record keeping requirements as specified in term *C.1*.
3. Compliance with the ink production limitation in term *B.1* shall be determined by the record keeping requirements as specified in term *C.1*.

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4. Compliance with the HAPs limitations in term A.2.b. shall be determined by the record keeping requirements as specified in term C.2.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D., and E.