State of Ohio Environmental Protection Agency

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

Street Address: 122 S. Front Street
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address: Lazarus Gov. Center P.O. Box 1049

Application No: 14-05004

DATE: 6/11/2002

Color Resolutions International
Jerry Ogg
630 Glendale-Milford Road
Cincinnati, OH 45215

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

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

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

Very truly yours,

Thomas G. Rigo

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

CC: USEPA **HCDES**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install **Issue Date: 6/11/2002**
Terms and Conditions **Effective Date: 6/11/2002**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-05004

Application Number:	14-05004
APS Premise Number:	1431484065
Permit Fee:	**$4400**
Name of Facility:	Color Resolutions International
Person to Contact:	Jerry Ogg
Address:	630 Glendale-Milford Road Cincinnati, OH 45215

Location of proposed air contaminant source(s) [emissions unit(s)]:
630 Glendale-Milford Road
Cincinnati, **Ohio**

Description of proposed emissions unit(s):
61 inks mixers and mills (modification to PTI 14-05004 issued on 1/30/01).

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

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

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter

3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

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

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

Pollutant	Tons Per Year
OC	87.78
PM/PM10	1.723

Emissions Unit ID: **P001**

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	Applicable Rules/Requirements
	OAC rule 3745-17-07(A)(1)
P001 - 8x9 Ball Mill with premix	OAC rule 3745-31-02(A)(2)
	OAC rule 3745-31-05(D)
	OAC rule 3745-21-07(G)(2)
	OAC rule 3745-17-11

Applicable Emissions
Limitations/Control Measures

1.31 lbs/hr OC
21.0 lbs/day OC
2.56 TPY OC, based on a rolling, 12-month summation

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 8,516,667 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	709,722
1-2	1,419,444
1-3	2,129,166
1-4	2,838,888
1-5	3,548,610
1-6	4,258,332
1-7	4,968,054
1-8	5,677,776
1-9	6,387,498
1-10	7,097,220
1-11	7,806,942
1-12	8,516,667

   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:

   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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced

and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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.

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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P002 - 6x10 Ball Mill #2 (modification)	OAC rule 3745-31-02(A)(2)	0.58 lbs/hr OC 9.20 lbs/day OC 1.68 TPY OC 0.01 lb/hr PM/PM10 0.04 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

17

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P002**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P002, P003, P004, , P006 and P007 shall not exceed 4.93 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.41
1-2	0.82
1-3	1.23
1-4	1.64
1-5	2.05
1-6	2.46
1-7	2.87
1-8	3.28
1-9	3.69
1-10	4.10
1-11	4.51
1-12	4.93

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 The hourly, daily and 1.68 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P002, P003, P004, , P006 and P007 combined shall not exceed 24,605,703 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:

Months	Maximum allowable cumulative ink production, in pounds
1	2,050,475
1-2	4,100,950
1-3	6,151,425
1-4	8,201,900
1-5	10,252,375
1-6	12,302,850
1-7	14,353,325
1-8	16,403,800
1-9	18,454,275
1-10	20,504,750
1-11	22,555,225
1-12	24,605,703

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, for emissions units P002, P003, P004, P006 and P007 combined. 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 0.0004 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, for emissions units P002, P003, P004, P006 and P007 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each

HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P002,

P003, P004, P006 and P007 combined. 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 for emissions units P002, P003, P004, P006 and P007 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
P003 - 6x8 Ball Mill #3 (modification)	OAC rule 3745-31-02(A)(2)	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

0.43 lbs/hr OC
6.80 lbs/day OC
1.24 TPY 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 rules 3745-17-07(A)(1) and 3745-31-05(D).

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P002, P003, P004, P006 and P007 shall not exceed 4.93 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.41
1-2	0.82
1-3	1.23
1-4	1.64
1-5	2.05
1-6	2.46
1-7	2.87
1-8	3.28
1-9	3.69
1-10	4.10
1-11	4.51
1-12	4.93

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 The hourly, daily and 1.24 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P002, P003, P004, P006 and P007 combined shall not exceed 24,605,703 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

Months	ink production, in pounds
1	2,050,475
1-2	4,100,950
1-3	6,151,425
1-4	8,201,900
1-5	10,252,375
1-6	12,302,850
1-7	14,353,325
1-8	16,403,800
1-9	18,454,275
1-10	20,504,750
1-11	22,555,225
1-12	24,605,703

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, for emissions units P002, P003, P004, P006 and P007 combined. 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 0.0004 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, for emissions units P002, P003, P004, P006and P007 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006and P007 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. 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 for emissions units P002, P003, P004, P006 and P007 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P004 - 6x8 Ball Mill #2 (modification)	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

0.44 lbs/hr OC
8.82 lbs/day OC
1.61 TPY OC

0.01 lb/hr PM/PM10
0.04 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.e. and B.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).

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 use of tight-fitting covers, use of a fabric filter, compliance with OC and PM-PM10 emission limitations and production 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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P004**

2.e The combined annual organic compounds (OC) emissions from emissions units P002, P003, P004, P006 and P007 shall not exceed 4.93 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.41
1-2	0.82
1-3	1.23
1-4	1.64
1-5	2.05
1-6	2.46
1-7	2.87
1-8	3.28
1-9	3.69
1-10	4.10
1-11	4.51
1-12	4.93

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, daily and 1.61 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P002, P003, P004, P006 and P007 combined shall not exceed 24,605,703 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	2,050,475
1-2	4,100,950
1-3	6,151,425
1-4	8,201,900
1-5	10,252,375
1-6	12,302,850
1-7	14,353,325
1-8	16,403,800
1-9	18,454,275
1-10	20,504,750
1-11	22,555,225
1-12	24,605,703

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, for emissions units P002, P003, P004, P006 and P007 combined. 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 0.0004 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, for emissions units P002, P003, P004, P006 and P007

combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. 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 for emissions units P002, P003, P004, P006 and P007 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c.

5. 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 limitation 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. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

2. The cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P005 - Ball Mill #6A (modification)	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

1.40 lbs/hr OC, excluding cleanup
28.0 lbs/day OC, excluding cleanup
5.50 TPY OC, including cleanup

0.002 lb/hr PM/PM10
0.009 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.e., B.1. and B.2.

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

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 use of tight-fitting covers, use of a fabric filter, compliance with OC and PM-PM10 emission limitations and production limitations and compliance with the Air Toxics Policy.

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 80 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P005, P008, P009 and P012 shall not exceed 6.07 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.51
1-2	1.02
1-3	1.53
1-4	2.04
1-5	2.55
1-6	3.06
1-7	3.57
1-8	4.08
1-9	4.59
1-10	5.10
1-11	5.61
1-12	6.07

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in term C.1.f. - C.1.i.

2.f The hourly, daily and 5.50 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P005, P008, P009 and P012

combined shall not exceed 1,245,714 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:

Months	Maximum allowable cumulative ink production, in pounds
1	103,810
1-2	207,620
1-3	311,430
1-4	415,240
1-5	519,050
1-6	622,860
1-7	726,670
1-8	830,480
1-9	934,290
1-10	1,038,100
1-11	1,141,910
1-12	1,245,714

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P005, P008, P009 and P012 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup materials, in pounds or tons (g-h).

j. 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, for emissions units P005, P008, P009 and P012 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

k. The amount of pigments (non-volatiles/solids) employed in tons.

l. 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 fabric filter control efficiency of (1-.98).

m. The company identification of each liquid organic cleanup material employed in this emissions unit.

n. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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.

3. The permit to install for this emissions unit (P005) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

   The following summarizes the results of the modeling for the "worst case" pollutant(s):

   Pollutant: trimethylbenzene

TLV (ug/m3): 122,900

Maximum Hourly Emission Rate (lbs/hr): 1.40

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m3): 987.6

MAGLC (ug/m3): 2,926

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

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

b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled: and

c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

4. If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s)to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.
The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

a. A description of the parameters changed(composition of materials, new pollutants emitted,

change in stack/exhaust parameters, etc.);

b. Documentation of it's evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

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

D. Reporting Requirements

1. The permittee shall 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 OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P005, P008, P009 and P012 combined. 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 for emissions units P005, P008, P009 and P012 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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

None

Emissions Unit ID: **P006**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P006 - Ball Mill #4 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions Limitations/Control Measures
0.34 lbs/hr OC 6.56 lbs/day OC 1.01 TPY 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 rules 3745-17-07(A)(1) and 3745-31-05(D).
See terms A.2.b, A.2.c., A.2.d. and B.1.
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P002, P003, P004, P006 and P007 shall not exceed 4.93 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.41
1-2	0.82
1-3	1.23
1-4	1.64
1-5	2.05
1-6	2.46
1-7	2.87
1-8	3.28
1-9	3.69
1-10	4.10
1-11	4.51
1-12	4.93

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 The hourly, daily and 1.01 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P002, P003, P004, P006 and P007 combined shall not exceed 24,605,703 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:

Months	Maximum allowable cumulative ink production, in pounds
1	2,050,475
1-2	4,100,950
1-3	6,151,425
1-4	8,201,900
1-5	10,252,375
1-6	12,302,850
1-7	14,353,325
1-8	16,403,800
1-9	18,454,275
1-10	20,504,750
1-11	22,555,225
1-12	24,605,703

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, for emissions units P002, P003, P004, P006 and P007 combined. 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 0.0004 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, for emissions units P002, P003, P004, P006 and P007 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. 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 for emissions units P002, P003, P004, P006 and P007 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P007**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P007 - Ball Mill #5 (modification)	OAC rule 3745-31-02(A)(2)	0.24 lbs/hr OC 4.80 lbs/day OC 0.75 TPY 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 rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

68

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P007**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P002, P003, P004, P006 and P007 shall not exceed 4.93 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.41
1-2	0.82
1-3	1.23
1-4	1.64
1-5	2.05
1-6	2.46
1-7	2.87
1-8	3.28
1-9	3.69
1-10	4.10
1-11	4.51
1-12	4.93

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 The hourly, daily and 0.75 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P002, P003, P004, P006 and P007 combined shall not exceed 24,605,703 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:

Months	Maximum allowable cumulative ink production, in pounds
1	2,050,475
1-2	4,100,950
1-3	6,151,425
1-4	8,201,900
1-5	10,252,375
1-6	12,302,850
1-7	14,353,325
1-8	16,403,800
1-9	18,454,275
1-10	20,504,750
1-11	22,555,225
1-12	24,605,703

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, for emissions units P002, P003, P004, P006 and P007 combined. 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 0.0004 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, for emissions units P002, P003, P004, P006 and P007 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P002, P003, P004, P006 and P007 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P002, P003, P004, P006 and P007 combined. 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 for emissions units P002, P003, P004, P006 and P007 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P008**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P008 - Ball Mill #6 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.12 lbs/hr OC, excluding cleanup
22.40 lbs/day OC, excluding cleanup
3.58 TPY OC, including cleanup

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P005, P008, P009 and P012 shall not exceed 6.07 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.51
1-2	1.02
1-3	1.53
1-4	2.04
1-5	2.55
1-6	3.06
1-7	3.57
1-8	4.08
1-9	4.59
1-10	5.10
1-11	5.61
1-12	6.07

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in term C.1.f. - C.1.i.

2.e The hourly, daily and 3.58 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P005, P008, P009 and P012 combined shall not exceed 1,245,714 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:

Months	Maximum allowable cumulative ink production, in pounds
1	103,810
1-2	207,620
1-3	311,430
1-4	415,240
1-5	519,050
1-6	622,860
1-7	726,670
1-8	830,480
1-9	934,290
1-10	1,038,100
1-11	1,141,910
1-12	1,245,714

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P005, P008, P009 and P012 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup materials, in pounds or tons (g-h).

j. 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, for emissions units P005, P008, P009 and P012 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

k. The amount of pigments (non-volatiles/solids) employed in tons.

l. 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 fabric filter control efficiency of (1-.98).

m. The company identification of each liquid organic cleanup material employed in this emissions unit.

n. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P005, P008, P009 and P012 combined. 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 for emissions units P005, P008, P009 and P012 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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

None

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P009 - Ball Mill #7 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

0.32 lb/hr OC, excluding cleanup
6.40 lbs/day OC, excluding cleanup
1.05 TPY OC, including cleanup

0.0005 lb/hr PM/PM10
0.002 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P005, P008, P009 and P012 shall not exceed 6.07 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.51
1-2	1.02
1-3	1.53
1-4	2.04
1-5	2.55
1-6	3.06
1-7	3.57
1-8	4.08
1-9	4.59
1-10	5.10
1-11	5.61
1-12	6.07

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.1.f. - C.1.i.

2.e The hourly, daily and 1.05 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P005, P008, P009 and P012 combined shall not exceed 1,245,714 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	103,810
1-2	207,620
1-3	311,430
1-4	415,240
1-5	519,050
1-6	622,860
1-7	726,670
1-8	830,480
1-9	934,290
1-10	1,038,100
1-11	1,141,910
1-12	1,245,714

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P005, P008, P009 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup materials, in pounds or tons (g-h).

j. 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, for emissions units P005, P008, P009 and P012 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

k. The amount of pigments (non-volatiles/solids) employed in tons.

l. . 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 fabric filter control efficiency of (1-.98).

m. The company identification of each liquid organic cleanup material employed in this emissions unit.

n. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P005, P008, P009 and P012 combined. 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 for emissions units P005, P008, P009 P012 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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

None

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P010 - Drais Mixer #1 and Drais Mill	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

1.70 lbs/hr OC
30.60 lbs/day OC
5.58 TPY 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.e. and B.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).

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 use of tight-fitting covers, use of a fabric filter, compliance with OC and PM-PM10 emission limitations, production limitations, and compliance with the Air Toxics Policy.

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 20 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P010 and P011 shall not exceed 7.44 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.62
1-2	1.24
1-3	1.86
1-4	2.48
1-5	3.10
1-6	3.72
1-7	4.34
1-8	4.96
1-9	5.58
1-10	6.20
1-11	6.82
1-12	7.44

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, daily and 5.58 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P010 and P011 combined shall not exceed 4,966,482 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	413,873
1-2	827,746
1-3	1,241,619
1-4	1,655,492
1-5	2,069,365
1-6	2,483,238
1-7	2,897,111
1-8	3,310,984
1-9	3,724,857
1-10	4,138,730
1-11	4,552,603
1-12	4,966,482

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, for emissions units P010 and P011 combined. 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, for emissions units P010 and P011 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P010 and P011 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P010 and P011 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P010 and P011 combined. 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 for emissions units P010 and P011 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c.

5. 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 limitation 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. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

2. The cleanup materials employed in this emissions unit are water-based materials.

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P011 - Premier Mixer and Premier Mill	OAC rule 3745-31-05(A)(3)	1.70 lbs/hr OC 30.60 lbs/day OC 5.58 TPY 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).
	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)	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 3745-17-11	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)	

105

Color

PTI A

Modification Issued: 6/11/2002

Emissions Unit ID: **P011**

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 use of tight-fitting covers, use of a fabric filter, compliance with OC and PM-PM10 emission limitations, production limitations, and compliance with the Air Toxics Policy.

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 20 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P010 and P011 shall not exceed 7.44 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.62
1-2	1.24
1-3	1.86
1-4	2.48
1-5	3.10
1-6	3.72
1-7	4.34
1-8	4.96
1-9	5.58
1-10	6.20
1-11	6.82
1-12	7.44

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, daily and 5.58 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P010 and P011 combined shall not exceed 4,966,482 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

Months	ink production, in pounds
1	413,873
1-2	827,746
1-3	1,241,619
1-4	1,655,492
1-5	2,069,365
1-6	2,483,238
1-7	2,897,111
1-8	3,310,984
1-9	3,724,857
1-10	4,138,730
1-11	4,552,603
1-12	4,966,482

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, for emissions units P010 and P011 combined. 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, for emissions units P010 and P011 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P010 and P011 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P010 and P011 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P010 and P011 combined. 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 for emissions units P010 and P011 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.c.

5. 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 limitation 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. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

2. The cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P012**

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P012 - Ball Mill #3 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.80 lbs/hr OC, excluding cleanup
40.0 lbs/day OC, excluding cleanup

0.005 lb/hr PM/PM10
0.02 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compound (OC) emissions from emissions units P005, P008, P009 and P012 shall not exceed 6.07 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.51
1-2	1.02
1-3	1.53
1-4	2.04
1-5	2.55
1-6	3.06
1-7	3.57
1-8	4.08
1-9	4.59
1-10	5.10
1-11	5.61
1-12	6.07

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.2.a. - C.2.d.

2.e The hourly emission limitation 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P005, P008, P009 and P012 combined shall not exceed 1,245,714 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	103,810
1-2	207,620
1-3	311,430
1-4	415,240
1-5	519,050
1-6	622,860
1-7	726,670
1-8	830,480
1-9	934,290
1-10	1,038,100
1-11	1,141,910
1-12	1,245,714

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day 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. The OC emissions from each ink produced, in pounds, calculated by multiplying the pounds of ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

2. The permittee shall collect and record the following information each month for this emissions unit:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from all cleanup materials, in pounds or tons (b-c).

e. 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 for emissions units P005, P008, P009 and P012 combined. 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.

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 and cleanup materials employed, in pounds or tons, for emissions units P005, P008, P009 and P012 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter control efficiency of (1-.98).

i. The company identification of each liquid organic cleanup material employed in this emissions unit.

j. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of

individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P005, P008, P009 and P012 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P005, P008, P009 and P012 combined. 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 for emissions units P005, P008, P009 and P012 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40 pounds per day, and the actual OC emissions for each such day.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	
P013 - Pebble Mill #8	OAC rule 3745-31-02(A)(2)	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

1.09 lbs/hr OC, excluding cleanup
24.07 lbs/day OC, excluding cleanup
4.56 TPY OC, including cleanup

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P013, P014, P051 and P052 shall not exceed 9.12 TPY, including cleanup, based on a rolling,

Emissions Unit ID: **P013**

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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.76
1-2	1.52
1-3	2.28
1-4	3.04
1-5	3.80
1-6	4.56
1-7	5.32
1-8	6.08
1-9	6.84
1-10	7.60
1-11	8.36
1-12	9.12

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.1.f. - C.1.i.

2.e The hourly, daily and 4.56 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P013, P014, P051 and P052 combined shall not exceed 2,433,334 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	202,777
1-2	405,554
1-3	608,331
1-4	811,108
1-5	1,013,885
1-6	1,216,662
1-7	1,419,439
1-8	1,622,216
1-9	1,824,993
1-10	2,027,770
1-11	2,230,547
1-12	2,433,334

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P013, P014, P051 and P052 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup 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, for emissions units P013, P014, P051 and P052 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

l. The amount of pigments (non-volatiles/solids) employed in tons.

m. 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 fabric filter control efficiency of (1-.98).

n. The company identification of each liquid organic cleanup material employed in this emissions unit.

o. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of

individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P013, P014, P051 and P052 combined. 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 for emissions units P013, P014, P051 and P052 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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

None

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P014 - Pebble Mill #9	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.09 lbs/hr OC, excluding cleanup
24.07 lbs/day OC, excluding cleanup
4.56 TPY OC, including cleanup

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P013, P014, P051 and P052 shall not exceed 9.12 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.76
1-2	1.52
1-3	2.28
1-4	3.04
1-5	3.80
1-6	4.56
1-7	5.32
1-8	6.08
1-9	6.84
1-10	7.60
1-11	8.36
1-12	9.12

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.1.f. - C.1.i.

2.e The hourly, daily and 4.56 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P013, P014, P051 and P052 combined shall not exceed 2,433,334 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	202,777
1-2	405,554
1-3	608,331
1-4	811,108
1-5	1,013,885
1-6	1,216,662
1-7	1,419,439
1-8	1,622,216
1-9	1,824,993
1-10	2,027,770
1-11	2,230,547
1-12	2,433,334

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P013, P014, P051 and P052 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup 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, for emissions units P013, P014, P051 and P052 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

l. The amount of pigments (non-volatiles/solids) employed in tons.

m. 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 fabric filter control efficiency of (1-.98).

n. The company identification of each liquid organic cleanup material employed in this emissions unit.

o. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P013, P014, P051 and P052 combined. 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 for emissions units P013, P014, P051 and P052 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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

None

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P015 - FSH Mixer #1 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

3.70 lbs/hr OC
40.0 lbs/day OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000
1-7	175,000
1-8	200,000
1-9	225,000

1-10	250,000
1-11	275,000
1-12	300,000

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 day 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. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   e. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of each Medium-High VOC Category ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   f. The total OC emissions from Low and Medium-High VOC Category inks produced, in pounds per day (d + e).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

c. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

d. The amount of pigments (non-volatiles/solids) employed in tons.

e. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation

following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

7. 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 limitations in terms A.2.b. and 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitations in terms B.1. and B.2. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P016 - FSH Mixer #2 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

3.09 lbs/hr OC
40.0 lbs/day OC

0.005 lb/hr PM/PM10
0.02 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000
1-7	175,000
1-8	200,000

1-9	225,000
1-10	250,000
1-11	275,000
1-12	300,000

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 day 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. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   e. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   f. The total OC emissions from Low and Medium-High VOC Category inks produced, in pounds per day (d + e).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   b. Beginning after the first 12 calendar months of operation following the issuance of this

permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

c. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

d. The amount of pigments (non-volatiles/solids) employed in tons.

e. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

7. 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 limitations in terms A.2.b. and 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 terms C.1. and C.2.

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.2..

5. Compliance with the ink production limitations in terms B.1. and B.2. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P017 - FSH Mixer #3 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

3.09 lbs/hr OC
40.0 lbs/day OC

0.005 lb/hr PM/PM10
0.02 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000
1-7	175,000
1-8	200,000

1-9	225,000
1-10	250,000
1-11	275,000
1-12	300,000

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 day 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. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   e. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of each Medium-High VOC Category ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   f. The total OC emissions from Low and Medium-High VOC Category inks produced, in pounds per day (d + e).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

c. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

d. The amount of pigments (non-volatiles/solids) employed in tons.

e. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the

individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016,

P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b. and A.2.c.

6. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

7. 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 limitation in terms A.2.b. and 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in terms B.1. and B.2. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
P018 - FSH Mixer #4 (modification)	OAC rule 3745-31-02(A)(2)	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

3.09 lbs/hr OC
37.02 lbs/day OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 daily records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000

1-7	175,000
1-8	200,000
1-9	225,000
1-10	250,000
1-11	275,000
1-12	300,000

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 Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category inks produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first

12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitation in terms A.2.b. and 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 limitations in terms B.1. and B.2. 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P019 - FSH Mixer #5 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

3.09 lbs/hr OC
37.02 lbs/day OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 daily records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000

1-7	175,000
1-8	200,000
1-9	225,000
1-10	250,000
1-11	275,000
1-12	300,000

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 Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category inks produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first

12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in terms A.2.b. and 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 limitations in terms B.1. and B.2. 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P020**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P020 - FSH Mixer #6 (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

3.70 lbs/hr OC
40.0 lbs/day OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50% 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P015, P016, P017, P018, P019 and P020 shall not exceed 0.99 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.99

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 emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P015, P016, P017, P018, P019 and P020 combined shall not exceed 300,000 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	25,000
1-2	50,000
1-3	75,000
1-4	100,000
1-5	125,000
1-6	150,000
1-7	175,000
1-8	200,000

1-9	225,000
1-10	250,000
1-11	275,000
1-12	300,000

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 day 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. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00013 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   e. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of each Medium-High VOC Category ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   f. The total OC emissions from Low and Medium-High VOC Category inks produced, in pounds per day (d + e).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Low VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

c. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P015, P016, P017, P018, P019 and P020 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

d. The amount of pigments (non-volatiles/solids) employed in tons.

e. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the

individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P015, P016,

P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P015, P016, P017, P018, P019 and P020 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

7. 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 limitations in terms A.2.b. and 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitations in terms B.1. and B.2. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P021**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P021 - Kettle O Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

7.20 lbs/hr OC, excluding cleanup
40.0 lbs/day OC, excluding cleanup

0.012 lb/hr PM/PM10
0.03 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P021, P023 and P035 shall not exceed 6.82 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.57
1-2	1.14
1-3	1.71
1-4	2.28
1-5	2.85
1-6	3.42
1-7	3.99
1-8	4.56
1-9	5.13
1-10	5.70
1-11	6.27
1-12	6.82

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.2.b. - C.2.e.

2.e The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P021,P023 and P035 combined shall not exceed 1,988,238 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	165,687
1-2	331,374
1-3	497,061
1-4	662,748
1-5	828,435
1-6	994,122
1-7	1,159,809
1-8	1,325,496
1-9	1,491,183
1-10	1,656,870
1-11	1,822,557
1-12	1,988,238

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day 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. The OC emissions from each ink produced, in pounds , 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).

2. The permittee shall collect and record the following information each month for this emissions unit:

a. 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, for emissions units P021, P023 and P035 combined. 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.

b. The name and identification of each cleanup material employed.

c. The number of pounds of each cleanup material employed.

d. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

e. The OC emissions from all cleanup materials, in pounds or tons (c-d)

f. The total OC emissions from all inks produced and cleanup materials employed, in pounds or tons.

g. 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, for emissions units P021, P023 and P035 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

h. The amount of pigments (non-volatiles/solids) employed in tons.

i. . 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 fabric filter control efficiency of (1-.98).

j. The company identification of each liquid organic cleanup material employed in this emissions unit.

k. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P021, P023, and P035 combined. 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 for emissions units P021, P023 and P035 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total

quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P022 - Kettle #3 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.30 lbs/hr OC
20.70 lbs/day OC
3.15 TPY OC, based on a rolling, 12-month summation

0.020 lb/hr PM/PM10
0.03 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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.

B. Operational Restrictions

1. The maximum annual ink production rate for this emissions unit shall not exceed 5,475,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	456,250
1-2	912,500
1-3	1,368,750
1-4	1,825,000
1-5	2,281,250
1-6	2,737,500
1-7	3,193,750
1-8	3,650,000
1-9	4,106.250
1-10	4,562,500
1-11	5,018,750
1-12	5,475,000

   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 0.00115 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.

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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 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.

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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P023**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P023 - Kettle #4 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

6.23 lbs/hr OC, excluding cleanup
37.39 lbs/day OC, excluding cleanup

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P021, P023 and P035 shall not exceed 6.82 TPY, including cleanup, based upon 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:

Month(s)	Maximum Allowable OC Emissions in Tons
1-	0.57
1-2	1.14
1-3	1.71
1-4	2.28
1-5	2.85
1-6	3.42
1-7	3.99
1-8	4.56
1-9	5.13
1-10	5.70
1-11	6.27
1-12	6.82

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.2.b. - C.2.e.

2.e The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P021, P023 and P035 combined shall not exceed 1,988,238 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	165,687
1-2	331,374
1-3	497,061
1-4	662,748
1-5	828,435
1-6	994,122
1-7	1,159,809
1-8	1,325,496
1-9	1,491,183
1-10	1,656,870
1-11	1,822,557
1-12	1,988,238

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day 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. The OC emissions from each ink produced, in pounds, 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).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. 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 for

emissions units P021, P023 and P035 combined. 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.

b. The name and identification of each cleanup material employed.

c. The number of pounds of each cleanup material employed.

d. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

e. The OC emissions from all cleanup materials, in pounds or tons (c-d).

f. The total OC emissions from all inks produced and cleanup materials employed, in pounds or tons.

g. 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 for emissions units P021, P023 and P035 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

h. The amount of pigments (non-volatiles/solids) employed in tons.

i. 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 fabric filter control efficiency of (1-.98).

j. The company identification of each liquid organic cleanup material employed in this emissions unit.

k. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P021, P023 and P035 combined. 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 for emissions units P021, P023 and P035 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 37.39 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P024 - Roto Mixer #10	OAC rule 3745-31-02(A)(2)	0.72 lb/hr OC 11.52 lbs/day OC 0.01 lb/hr PM/PM10 0.03 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

236

Color

PTI A

Modification Issued: 6/11/2002

Emissions Unit ID: **P024**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P024 and P025 shall not exceed 0.96 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.96

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 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P024 and P025 combined shall not exceed 3,212,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	267,666
1-2	535,332

1-3	802,998
1-4	1,070,664
1-5	1,338,330
1-6	1,605,996
1-7	1,873,662
1-8	2,141,328
1-9	2,408,994
1-10	2,676,660
1-11	2,944,326
1-12	3,212,000

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, for emissions units P024 and P025 combined. 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, for emissions units P024 and P025 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the

permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and

HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P024 and P025 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P024 and P025 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P024 and P025 combined. 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 for emissions units P024 and P025 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P025**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P025 - Roto Mixer #11	OAC rule 3745-31-02(A)(2)	0.27 lb/hr OC 4.32 lbs/day OC 0.79 TPY OC 0.004 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

245

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P025**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P024 and P025 shall not exceed 0.96 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.08
1-2	0.16
1-3	0.24
1-4	0.32
1-5	0.40
1-6	0.48
1-7	0.56
1-8	0.64
1-9	0.72
1-10	0.80
1-11	0.88
1-12	0.96

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 The hourly, daily and 0.79 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P024 and P025 combined shall not exceed 3,212,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	267,666
1-2	535,332
1-3	802,998
1-4	1,070,664
1-5	1,338,330
1-6	1,605,996
1-7	1,873,662
1-8	2,141,328
1-9	2,408,994
1-10	2,676,660
1-11	2,944,326
1-12	3,212,000

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, for emissions units P024 and P025 combined. 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, for emissions units P024 and P025 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P024 and P025 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P024 and P025 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P024 and P025 combined. 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 for emissions units P024 and P025 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P026 - Roto Mixer #12	OAC rule 3745-31-02(A)(2)	2.78 lbs/hr OC 40.0 lbs/day OC 0.004 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

254

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P026**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P026, P027 and P028 shall not exceed 8.10 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.67
1-2	1.34
1-3	2.01
1-4	2.68
1-5	3.35
1-6	4.02
1-7	4.69
1-8	5.36
1-9	6.03
1-10	6.70
1-11	7.37
1-12	8.10

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 The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P026, P027 and P028 combined shall not exceed 2,628,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	219,000
1-2	438,000
1-3	657,000

1-4	876,000
1-5	1,095,000
1-6	1,314,000
1-7	1,533,000
1-8	1,752,000
1-9	1,971,000
1-10	2,190,000
1-11	2,409,000
1-12	2,628,000

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 day 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. The OC emissions from each ink produced, in pounds, 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).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. 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, for emissions units P026, P027 and P028 combined. 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.

   b. 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, for emissions units P026, P027 and P028 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the

permittee shall record the cumulative total combined OC emissions for each calendar month.

c. The amount of pigments (non-volatiles/solids) employed in tons.

d. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P026, P027 and P028 combined. 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 for emissions units P026, P027 and P028 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40 pounds per day, and the actual OC emissions for each such day.

6. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P027**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P027 - Roto Mixer #13	OAC rule 3745-31-02(A)(2)	2.78 lbs/hr OC 40.0 lbs/day OC 0.004 lb/hr PM/PM10 0.01 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-07(A)(1)	

264

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P027**

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P026, P027 and P028 shall not exceed 8.10 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.67
1-2	1.34
1-3	2.01
1-4	2.68
1-5	3.35
1-6	4.02
1-7	4.69
1-8	5.36
1-9	6.03
1-10	6.70
1-11	7.37
1-12	8.10

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 The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P026, P027 and P028 combined shall not exceed 2,628,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	219,000
1-2	438,000
1-3	657,000

1-4	876,000
1-5	1,095,000
1-6	1,314,000
1-7	1,533,000
1-8	1,752,000
1-9	1,971,000
1-10	2,190,000
1-11	2,409,000
1-12	2,628,000

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 day 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. The OC emissions from each ink produced, in pounds, 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).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. 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, for emissions units P026, P027 and P028 combined. 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.

   b. 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, for emissions units P026, P027 and P028 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the

permittee shall record the cumulative total combined OC emissions for each calendar month.

c. The amount of pigments (non-volatiles/solids) employed in tons.

d. 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 fabric filter control efficiency of (1-.98).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P026, P027 and P028 combined. 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 for emissions units P026, P027 and P028 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40 pounds per day, and the actual OC emissions for each such day.

6. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P028**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P028 - Roto Mixer #14	OAC rule 3745-31-02(A)(2)	2.78 lbs/hr OC 40.0 lbs/day OC 0.20 lb/hr PM/PM10 0.59 TPY PM/PM10 The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1), 3745-31-05(D) and 3745-17-08(B).
	OAC rule 3745-31-05(D)	See terms A.2.b, A.2.c., A.2.d. and B.1.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
	OAC rule 3745-17-08(B)	See term A.2.e.
	OAC rule 3745-17-07(B)(1)	See term A.2.a.

2. Additional Terms and Conditions

2.a Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P026, P027 and P028 shall not exceed 8.10 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.67
1-2	1.34
1-3	2.01
1-4	2.68
1-5	3.35
1-6	4.02
1-7	4.69
1-8	5.36
1-9	6.03
1-10	6.70
1-11	7.37
1-12	8.10

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 The permittee shall take all steps necessary to ensure proper material load-in procedures, so as to minimize or eliminate visible emissions of fugitive dust.

2.f The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P026, P027 and P028 combined shall not exceed 2,628,000 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

Emissions Unit ID: **P028**

Months	ink production, in pounds
1-	219,000
1-2	438,000
1-3	657,000
1-4	876,000
1-5	1,095,000
1-6	1,314,000
1-7	1,533,000
1-8	1,752,000

1-9	1,971,000
1-10	2,190,000
1-11	2,409,000
1-12	2,628,000

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 day 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. The OC emissions from each ink produced, in pounds, 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).

2. The permittee shall collect and record the following information each month for this emissions unit:

   a. 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, for emissions units P026, P027 and P028 combined. 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.

   b. 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, for emissions units P026, P027 and P028 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

   c. The amount of pigments (non-volatiles/solids) employed in tons.

d. 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).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P026, P027 and P028 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P026, P027 and P028 combined. 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 for emissions units P026, P027 and P028 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40 pounds per day, and the actual OC emissions for each such day.

6. 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 fugitive visible particulate limitation shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

2. Compliance with the percent by weight OC content limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

1. The cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P029**

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P029 - LPTB Mixer #1	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.88 lbs/hr OC
23.0 lbs/day OC
4.20 TPY OC

0.025 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 4.20 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010
1-6	13,684,812

1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of

operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1.and B.2. 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P030 - LPTB Mixer #2	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.88 lbs/hr OC
23.0 lbs/day OC
4.20 TPY OC

0.025 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 4.20 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1-	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010

1-6	13,684,812
1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of

operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1 and B.2 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P031**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P031 - LPTB Mixer #3	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.88 lbs/hr OC
23.0 lbs/day OC
4.20 TPY OC

0.025 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 4.20 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1-	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010
1-6	13,684,812

1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

   i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit

reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1. and B.2. 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P032**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P032 - LPTB Mixer #4	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.88 lbs/hr OC
23.0 lbs/day OC
4.20 TPY OC

0.025 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 4.20 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1-	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010

1-6	13,684,812
1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12

calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1 and B.2 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P033 - LPTB Mixer #5	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

2.42 lbs/hr OC
14.49 lbs/day OC
1.92 TPY OC

0.021 lb/hr PM/PM10
0.02 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2)).

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 1.92 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1-	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010

1-6	13,684,812
1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12

calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1 and B.2 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P034**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P034 - LPTB Mixer #6	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.96 lbs/hr OC
29.33 lbs/day OC
4.89 TPY OC

0.017 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the Very Low VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 compounds (OC) emissions from emissions units P029, P030, P031, P032, P033 and P034 shall not exceed 16.08 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	1.34
1-2	2.68
1-3	4.02
1-4	5.36
1-5	6.70
1-6	8.04
1-7	9.38
1-8	10.72
1-9	12.06
1-10	13.40
1-11	14.74
1-12	16.08

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, daily and 4.89 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 13,684,812 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	1,140,401
1-2	2,280,802
1-3	3,421,203
1-4	4,561,604
1-5	5,702,005
1-6	6,842,406
1-7	7,982,807
1-8	9,123,208
1-9	10,263,609
1-10	11,404,010
1-11	12,544,411
1-12	13,684,812

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 Low VOC Category ink production figures.

2. The maximum annual Very Low VOC Category ink production rate for emissions units P029, P030, P031, P032, P033 and P034 combined shall not exceed 27,369,629 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:

Months	Maximum allowable cumulative Very Low VOC Category ink production, in pounds
1-	2,280,802
1-2	4,561,604
1-3	6,842,406
1-4	9,123,208
1-5	11,404,010

1-6	13,684,812
1-7	15,965,614
1-8	18,246,416
1-9	20,527,218
1-10	22,808,020
1-11	25,088,822
1-12	27,369,629

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 Very Low VOC Category 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 Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

   e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Very Low VOC Category ink production figures, in pounds, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Very Low VOC Category ink production figures for each calendar month.

   f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.00115 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   g. The OC emissions from each Very Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Very Low VOC Category ink produced by an emission factor of 0.0006 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

   h. 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 (both Low VOC and Very Low VOC Category Inks), in pounds or tons, for emissions units P029, P030, P031, P032, P033 and P034 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

i. The amount of pigments (non-volatiles/solids) employed in tons.

j. 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Very Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit

reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P029, P030, P031, P032, P033 and P034 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. 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 limitations in term A.2.b. and 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), 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 limitations in term B.1 and B.2 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 cleanup materials employed in this emissions unit are water-based materials.

Emissions Unit ID: **P035**

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P035 - Tank #1 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

4.11 lbs/hr OC, excluding cleanup
40.0 lbs/day OC, excluding cleanup

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P021, P023 and P035 shall not exceed 6.82 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.57
1-2	1.14
1-3	1.71
1-4	2.28
1-5	2.85
1-6	3.42
1-7	3.99
1-8	4.56
1-9	5.13
1-10	5.70
1-11	6.27
1-12	6.82

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in terms C.2.b. - C.2.e.

2.e The hourly emission limitation 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 hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P021, P023 and P035 combined shall not exceed 1,988,238 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:

Color Resolutions International **Facility ID: 1431484065**

PTI Application: 14-05004

Modif

Emissions Unit ID: **P035**

Months	Maximum allowable cumulative ink production, in pounds
1-	165,687
1-2	331,374
1-3	497,061
1-4	662,748
1-5	828,435
1-6	994,122
1-7	1,159,809
1-8	1,325,496
1-9	1,491,183
1-10	1,656,870
1-11	1,822,557
1-12	1,988,238

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day 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. The OC emissions from each ink produced, in pounds, calculated by multiplying the pounds of ink produced by an emission factor of 0.00617 lb OC/pound of ink produced (AP-42 Table 6.4-1; 5/83).

2. The permittee shall collect and record the following information each month for this emissions unit:

a. 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, for emissions units P021, P023 and P035 combined. 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.

b. The name and identification of each cleanup material employed.

c. The number of pounds of each cleanup material employed.

d. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

e. The OC emissions from all cleanup materials, in pounds or tons (c-d).

f. The total OC emissions from all inks produced and cleanup materials employed, in pounds or tons.

g. 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, for emissions units P021, P023 and P035 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

h. The amount of pigments (non-volatiles/solids) employed in tons.

i. . 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 fabric filter control efficiency of (1-.98).

j. The company identification of each liquid organic cleanup material employed in this emissions unit.

k. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P021, P023 and P035 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P021, P023 and P035 combined. 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 for emissions units P021, P023 and P035 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall submit deviation reports which identify each day during which the OC emissions exceeded 40.0 pounds per day, excluding cleanup, and the actual OC emissions for each such day.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total

quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitation 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitation in term B.1. shall be determined by the record keeping requirements as specified in terms C.1. and C.2.

6. Compliance with the HAPs limitations in term A.2.c. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P036 - Tank #3 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.60 lbs/hr OC
19.20 lbs/day OC
3.50 TPY OC

0.03 lb/hr PM/PM10
0.06 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 3.50 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1-	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P037 - Tank #4 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.80 lbs/hr OC
21.60 lbs/day OC
3.94 TPY OC

0.03 lb/hr PM/PM10
0.07 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 3.94 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P038 - Tank #5 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.50 lbs/hr OC
12.00 lbs/day OC
2.19 TPY OC

0.03 lb/hr PM/PM10
0.04 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 TPY, based on a rolling, 12-month summation.

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P038**

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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 2.19 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1-	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P039 - Tank #6 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.33 lbs/hr OC
16.0 lbs/day OC
2.92 TPY OC

0.02 lb/hr PM/PM10
0.05 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units , P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 TPY, based on a rolling, 12-month summation.

383

Color

PTI A

Modification Issued: 6/11/2002

Emissions Unit ID: **P039**

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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 2.92 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1-	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units , P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units , P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units , P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units , P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P040 - Tank #7 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.33 lbs/hr OC
16.0 lbs/day OC
2.92 TPY OC

0.02 lb/hr PM/PM10
0.05 TPY PM/PM10

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 2.92 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1-	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units , P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units , P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units , P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units , P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units , P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P041 - Tank #8 Mixer (modification)	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions Limitations/Control Measures
1.33 lbs/hr OC 16.0 lbs/day OC 2.92 TPY OC
0.02 lb/hr PM/PM10 0.05 TPY PM/PM10
The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
See terms A.2.b, A.2.c., A.2.d. and B.1.
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .
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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units , P036, P037, P038, P039, P040 and P041 shall not exceed 9.64 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.80
1-2	1.60
1-3	2.40
1-4	3.20
1-5	4.00
1-6	4.80
1-7	5.60
1-8	6.40
1-9	7.20
1-10	8.00
1-11	8.80
1-12	9.64

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 The hourly, daily and 2.92 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P036, P037, P038, P039, P040 and P041 combined shall not exceed 32,120,184 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

Months	ink production, in pounds
1-	2,676,682
1-2	5,353,364
1-3	8,030,046
1-4	10,706,728
1-5	13,383,410
1-6	16,060,092
1-7	18,736,774
1-8	21,413,456
1-9	24,090,138
1-10	26,766,820
1-11	29,443,502
1-12	32,120,184

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, for emissions units , P036, P037, P038, P039, P040 and P041 combined. 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, for emissions units , P036, P037, P038, P039, P040 and P041 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each

HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P036, P037, P038, P039, P040 and P041 combined. 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 for emissions units P036, P037, P038, P039, P040 and P041 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P042 - Mixer #9	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

0.27 lb/hr OC
4.32 lbs/day OC
0.79 TPY OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P042, P043 and P044 shall not exceed 1.66 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.14
1-2	0.28
1-3	0.42
1-4	0.56
1-5	0.70
1-6	0.84
1-7	0.98
1-8	1.12
1-9	1.26
1-10	1.40
1-11	1.54
1-12	1.66

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 The hourly, daily and 0.79 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P042, P043 and P044 combined shall not exceed 5,548,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	462,333
1-2	924,666
1-3	1,386,999
1-4	1,849,332
1-5	2,311,665
1-6	2,773,998
1-7	3,236,331
1-8	3,698,664
1-9	4,160,997
1-10	4,623,330
1-11	5,085,663
1-12	5,548,000

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, for emissions units P042, P043 and P044 combined. 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, for emissions units P042, P043 and P044 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each

HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P042,

P043 and P044 combined. 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 for emissions units P042, P043 and P044 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P043 - Mixer #5	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

1.20 lbs/hr OC
9.60 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 rules 3745-17-07(A)(1) and 3745-31-05(D).

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P042, P043 and P044 shall not exceed 1.66 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.14
1-2	0.28
1-3	0.42
1-4	0.56
1-5	0.70
1-6	0.84
1-7	0.98
1-8	1.12
1-9	1.26
1-10	1.40
1-11	1.54
1-12	1.66

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 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P042, P043 and P044 combined shall not exceed 5,548,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	462,333
1-2	924,666

1-3	1,386,999
1-4	1,849,332
1-5	2,311,665
1-6	2,773,998
1-7	3,236,331
1-8	3,698,664
1-9	4,160,997
1-10	4,623,330
1-11	5,085,663
1-12	5,548,000

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, for emissions units P042, P043 and P044 combined. 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, for emissions units P042, P043 and P044 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the

permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c)

times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P042, P043 and P044 combined. 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 for emissions units P042, P043 and P044 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content

limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P044 - Kettle Mixer #6	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

0.27 lb/hr OC
4.32 lbs/day OC
0.79 TPY OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P042, P043 and P044 shall not exceed 1.66 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.14
1-2	0.28
1-3	0.42
1-4	0.56
1-5	0.70
1-6	0.84
1-7	0.98
1-8	1.12
1-9	1.26
1-10	1.40
1-11	1.54
1-12	1.66

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 The hourly, daily and 0.79 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P042, P043 and P044 combined shall not exceed 5,548,000 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	462,333
1-2	924,666
1-3	1,386,999
1-4	1,849,332
1-5	2,311,665
1-6	2,773,998
1-7	3,236,331
1-8	3,698,664
1-9	4,160,997
1-10	4,623,330
1-11	5,085,663
1-12	5,548,000

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, for emissions units P042, P043 and P044 combined. 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, for emissions units P042, P043 and P044 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each

HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P042, P043 and P044 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P042,

P043 and P044 combined. 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 for emissions units P042, P043 and P044 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P045 - Mixer #3	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

0.52 lb/hr OC
6.21 lbs/day OC
1.13 TPY OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P045 and P046 shall not exceed 1.17 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.10
1-2	0.20
1-3	0.30
1-4	0.40
1-5	0.50
1-6	0.60
1-7	0.70
1-8	0.80
1-9	0.90
1-10	1.00
1-11	1.10
1-12	1.17

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 The hourly, daily and 1.13 TPY 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P045 and P046 combined shall not exceed 2,036,700 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:

Months	Maximum allowable cumulative ink production, in pounds
1	169,725
1-2	339,450
1-3	509,175
1-4	678,900
1-5	848,625
1-6	1,018,350
1-7	1,188,075
1-8	1,357,800
1-9	1,527,525
1-10	1,697,250
1-11	1,866,975
1-12	2,036,700

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, for emissions units P045 and P046 combined. 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, for emissions units P045 and P046 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each

HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P045 and P046 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P045 and P046 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P045

and P046 combined. 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 for emissions units P045 and P046 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P046 - Port Blender	OAC rule 3745-31-02(A)(2)	
	OAC rule 3745-31-05(D)	
	OAC rule 3745-21-07(G)(2)	
	OAC rule 3745-17-11	

Applicable Emissions
Limitations/Control Measures

0.69 lb/hr OC
6.90 lbs/day OC

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

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

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

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P045 and P046 shall not exceed 1.17 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1	0.10
1-2	0.20
1-3	0.30
1-4	0.40
1-5	0.50
1-6	0.60
1-7	0.70
1-8	0.80
1-9	0.90
1-10	1.00
1-11	1.10
1-12	1.17

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 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.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P045 and P046 combined shall not exceed 2,036,700 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:

Months	Maximum allowable cumulative ink production, in pounds
1	169,725
1-2	339,450

1-3	509,175
1-4	678,900
1-5	848,625
1-6	1,018,350
1-7	1,188,075
1-8	1,357,800
1-9	1,527,525
1-10	1,697,250
1-11	1,866,975
1-12	2,036,700

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, for emissions units P045 and P046 combined. 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, for emissions units P045 and P046 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the

permittee shall record the cumulative total combined OC emissions 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 fabric filter 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 HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c)

times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P045 and P046 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P045 and P046 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P045 and P046 combined. 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 for emissions units P045 and P046 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. 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 limitation 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 cleanup materials employed in this emissions unit are water-based materials.

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	Applicable Rules/Requirements	OAC rule 3745-17-07(A)(1)
P051 - Pebble Mill #10	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
0.18 lb/hr OC, excluding cleanup 3.85 lbs/day OC, excluding cleanup 0.70 TPY OC, including cleanup
0.0003 lb/hr PM/PM10 0.001 TPY PM/PM10
The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-05(D).
See terms A.2.b, A.2.c., A.2.d., B.1. and B.2.
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
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 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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P013, P014, P051 and P052 shall not exceed 9.12 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.76
1-2	1.52
1-3	2.28
1-4	3.04
1-5	3.80
1-6	4.56
1-7	5.32
1-8	6.08
1-9	6.84
1-10	7.60
1-11	8.36
1-12	9.12

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in terms C.1.f. - C.1.i.*

2.e The hourly, daily and 0.70 TPY 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.f Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limits, OC content limitation and ink production limitation.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P013, P014, P051 and P052 combined shall not exceed 2,433,334 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	202,777
1-2	405,554
1-3	608,331
1-4	811,108
1-5	1,013,885
1-6	1,216,662
1-7	1,419,439
1-8	1,622,216
1-9	1,824,993
1-10	2,027,770
1-11	2,230,547
1-12	2,433,334

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for emissions units P013, P014, P051 and P052 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup 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, for emissions units P013, P014, P051 and P052 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

l. The amount of pigments (non-volatiles/solids) employed in tons.

m. 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 fabric filter control efficiency of (1-.98).

n. The company identification of each liquid organic cleanup material employed in this emissions unit.

o. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P013, P014, P051 and P052 combined. 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 for emissions units P013, P014, P051 and P052 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

6. 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 limitation 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. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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	Applicable Rules/Requirements	
		OAC rule 3745-17-07(A)(1)
P052 - Pebble Mill #11	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

0.18 lb/hr OC, excluding cleanup
3.85 lbs/day OC, excluding cleanup
0.70 TPY OC, including cleanup

0.0003 lb/hr PM/PM10
0.001 TPY PM/PM10

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

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

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

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 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 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P013, P014, P051 and P052 shall not exceed 9.12 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:

Month(s)	Maximum Allowable OC Emissions In Tons
1-	0.76
1-2	1.52
1-3	2.28
1-4	3.04
1-5	3.80
1-6	4.56
1-7	5.32
1-8	6.08
1-9	6.84
1-10	7.60
1-11	8.36
1-12	9.12

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in terms C.1.f. - C.1.i.*

2.e The hourly, daily and 0.70 TPY 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.f Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limits, OC content limitation and ink production limitation.

B. Operational Restrictions

1. The maximum annual ink production rate for emissions units P013, P014, P051 and P052 combined shall not exceed 2,433,334 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:

Months	Maximum allowable cumulative ink production, in pounds
1-	202,777
1-2	405,554
1-3	608,331
1-4	811,108
1-5	1,013,885
1-6	1,216,662
1-7	1,419,439
1-8	1,622,216
1-9	1,824,993
1-10	2,027,770
1-11	2,230,547
1-12	2,433,334

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.

2. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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, for

emissions units P013, P014, P051 and P052 combined. 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 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The name and identification of each cleanup material employed.

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 cleanup 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, for emissions units P013, P014, P051 and P052 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

l. The amount of pigments (non-volatiles/solids) employed in tons.

m. 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 fabric filter control efficiency of (1-.98).

n. The company identification of each liquid organic cleanup material employed in this emissions unit.

o. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

2. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P013, P014, P051 and P052 combined.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total ink production in pounds for each calendar month for emissions units P013, P014, P051 and P052 combined. 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 for emissions units P013, P014, P051 and P052 combined.

4. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in term A.2.b.

5. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance

occurs.

6. 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 limitation 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. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P053 - 32 inch 3-Roll Mill #1 (modification)	OAC rule 3745-31-02(A)(2)	0.35 lb/hr OC, excluding cleanup 7.70 lbs/day OC, excluding cleanup 1.40 TPY 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.c., A.2.d, A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50 percent by weight.

Emissions Unit ID: **P053**

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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements specified in term C.2.

2.f The hourly, daily and 1.40 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall

identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P054**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P054 - 20 inch 3-Roll Mill #2 (modification)	OAC rule 3745-31-02(A)(2)	0.28 lb/hr OC, excluding cleanup 4.48 lbs/day OC, excluding cleanup 0.82 TPY 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.c., A.2.d. , A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 0.82 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing

identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the

estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P055**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P055 - 30 inch 3-Roll Mill #3 (modification)	OAC rule 3745-31-02(A)(2)	0.35 lb/hr OC, excluding cleanup 7.70 lbs/day OC, excluding cleanup 1.40 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2)).

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.40 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall

identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P056**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P056 - 40 inch 3-Roll Mill #4 (modification)	OAC rule 3745-31-02(A)(2)	0.42 lb/hr OC, excluding cleanup 9.24 lbs/day OC, excluding cleanup 1.67 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2)).

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.67 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P057 - 32 inch 3-Roll Mill #5 (modification)	OAC rule 3745-31-02(A)(2)	0.35 lb/hr OC, excluding cleanup 7.70 lbs/day OC, excluding cleanup 1.40 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Month(s)	Maximum Allowable OC Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.40 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P058**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P058 - 32 inch 3-Roll Mill #6 (modification)	OAC rule 3745-31-02(A)(2)	0.35 lb/hr OC, excluding cleanup 7.70 lbs/day OC, excluding cleanup 1.40 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.40 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

Emissions Unit ID: **P059**

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P059 - 30 inch 3-Roll Mill #7 (modification)	OAC rule 3745-31-02(A)(2)	0.35 lb/hr OC, excluding cleanup 7.70 lbs/day OC, excluding cleanup 1.40 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.40 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

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h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

   a. The name and identification number of each HAP-containing ink produced;

   b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

   c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

   d. The number of pounds of each HAP-containing ink produced;

   e. The name and identification of each HAP-containing cleanup material employed;

   f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

   g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

   h. The number of pounds of each HAP-containing cleanup material employed;

   i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

   j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P060 - 40 inch 3-Roll Mill #8 (modification)	OAC rule 3745-31-02(A)(2)	0.42 lb/hr OC, excluding cleanup 9.24 lbs/day OC, excluding cleanup 1.67 TPY 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.c., A.2.d., A.2.e., B.1., B.2. and B.3.
	OAC rule 3745-21-07(G)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

2. Additional Terms and Conditions

2.a The maximum OC content for the Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.b The maximum OC content for the Medium-High VOC Category inks produced in this emissions unit shall not exceed 50 percent by weight.

553

Color

PTI A

Modification Issued: 6/11/2002

Emissions Unit ID: **P060**

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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 combined annual organic compounds (OC) emissions from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 2.12 TPY, excluding 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:

Maximum Allowable OC

Month(s)	Emissions In Tons, excluding cleanup
1	0.18
1-2	0.36
1-3	0.54
1-4	0.72
1-5	0.90
1-6	1.08
1-7	1.26
1-8	1.44
1-9	1.62
1-10	1.80
1-11	1.98
1-12	2.12

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 The combined annual organic compounds (OC) emissions from cleanup materials from emissions units P053, P054, P055, P056, P057, P058, P059 and P060 shall not exceed 3.85 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:

Month(s)	Maximum Allowable OC Emissions In Tons, from cleanup
1	0.32
1-2	0.64
1-3	0.96
1-4	1.28
1-5	1.60
1-6	1.92
1-7	2.24
1-8	2.56
1-9	2.88
1-10	3.20

1-11	3.52
1-12	3.85

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.

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in term C.2.*

2.f The hourly, daily and 1.67 TPY 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined shall not exceed 1,028,500 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1-	85,708
1-2	171,416
1-3	257,124
1-4	342,832
1-5	428,540
1-6	514,248
1-7	599,956
1-8	685,664
1-9	771,372
1-10	857,080
1-11	942,788
1-12	1,028,500

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.

2. The maximum annual Medium-High VOC Category ink production rate for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined 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:

Months	Maximum allowable cumulative Medium-High VOC Category ink production, in pounds
1-	33,333
1-2	66,666
1-3	99,999
1-4	133,332
1-5	166,665
1-6	199,998
1-7	233,331
1-8	266,664
1-9	299,997
1-10	333,330
1-11	366,663
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.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

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 Low VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

e. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Medium-High VOC Category ink production figures, in pounds, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Medium-High VOC Category ink production figures for each calendar month.

f. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0014 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

g. The OC emissions from each Medium-High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Medium-High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

h. 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 (both Low and Medium-High VOC Category inks), in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions, excluding cleanup for each calendar month.

2. The permittee shall collect and record the following information each month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined:

a. The name and identification of each cleanup material employed.

b. The number of pounds of each cleanup material employed.

c. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

d. The OC emissions from each cleanup material, in pounds or tons (b-c).

e. The total OC emissions from all cleanup materials employed, in pounds or tons.

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 cleanup materials employed, in pounds or tons, for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions from cleanup materials for each calendar month.

g. The company identification of each liquid organic cleanup material employed in this emissions unit.

h. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. These reports shall show the OC emissions from the inks produced and the OC emissions from the cleanup materials employed.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

4. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Medium-High VOC Category ink production in pounds for each calendar

month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Medium-High VOC Category ink production in pounds for each calendar month for emissions units P053, P054, P055, P056, P057, P058, P059 and P060 combined.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.a. and A.2.b.

6. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall

identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

7. 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 limitations in terms A.2.a. and 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 NAPIM Table 3-3 (3/96) and the record keeping requirements as specified in terms C.1. and C.2.

3. Compliance with the ink production limitations in term B.1. and B.2. 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.3.

F. Miscellaneous Requirements

None

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	Applicable Rules/Requirements	OAC rule 3745-17-11
P061 - Kady Mill #1	OAC rule 3745-31-02(A)(2)	
		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

8.0 lbs/hr OC, excluding cleanup
40.0 lbs/day OC, excluding cleanup
3.12 TPY OC, including cleanup, based on a rolling, 12-month summation

The OC emissions from the cleanup materials shall be calculated in accordance with the recordkeeping requirements *specified in terms C.2.c. - C.2.g.*

0.020 lb/hr PM/PM10
0.02 TPY PM/PM10

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-31-05(D) and 3745-21-07(G)(2)

See terms A.2.b., A.2.c., A.2.d., B.1., B.2. and B.3.

The emission limitation specified by this rule is the same as the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2) .

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 Low VOC Category inks produced in this emissions unit shall not exceed 10 percent by weight.

2.c The maximum OC content for the High VOC Category inks produced in this emissions unit shall not exceed 80 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:

Month(s)	Maximum Allowable Single HAP Emissions In Tons	Maximum Allowable Combined HAP Emissions In Tons
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 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.

B. Operational Restrictions

1. The maximum annual Low VOC Category ink production rate for emissions unit P061 shall not exceed 2,943,360 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:

Months	Maximum allowable cumulative Low VOC Category ink production, in pounds
1	245,280
1-2	490,560
1-3	735,840
1-4	981,120
1-5	1,226,400
1-6	1,471,680
1-7	1,716,960
1-8	1,962,240
1-9	2,207,520
1-10	2,452,800
1-11	2,698,080
1-12	2,943,360

   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 Low VOC Category ink production figures.

2. The maximum annual High VOC Category ink production rate for emissions units P061 shall not exceed 416,100 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:

Color
PTI A
Modification Issued: 6/11/2002

Emissions Unit ID: **P061**

Months	Maximum allowable cumulative High VOC Category ink production, in pounds
1	34,675
1-2	69,350
1-3	104,025
1-4	138,700
1-5	173,375
1-6	208,050
1-7	242,725
1-8	277,400
1-9	312,075
1-10	346,750
1-11	381,425
1-12	416,100

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 High VOC Category ink production figures.

3. The use of photochemically reactive cleanup material as defined in OAC rule 3745-21-01(C)(5) is prohibited.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day 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. The OC emissions from each Low VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of Low VOC Category ink produced by an emission factor of 0.0004 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

   e. The OC emissions from each High VOC Category ink produced, in pounds or tons, calculated by multiplying the pounds of High VOC Category ink produced by an emission factor of 0.007 lb OC/pound of ink produced (NAPIM Table 3-3; 3/96).

f. The total OC emissions from Low and High VOC Category inks produced, in pounds per day (d + e).

g. The total number of hours the emissions unit was in operation.

h. The average hourly OC emission rate for all inks produced, in pounds per hour (f /g).

2. The permittee shall collect and record the following information each month for this emissions unit:

a. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the Low VOC Category ink production figures, in pounds, for emissions unit P061. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative Low VOC Category ink production figures for each calendar month.

b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the High VOC Category ink production figures, in pounds, for emissions unit P061. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative High VOC Category ink production figures for each calendar month.

c. The name and identification of each cleanup material employed.

d. The number of pounds of each cleanup material employed.

e. The number of pounds of each cleanup material recovered for use as make-up solvent or reclaimed as waste for disposal.

f. The OC emissions from all cleanup materials, in pounds or tons (d-e).

g. 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 (both Low VOC and High VOC Category Inks) and cleanup materials employed, in pounds or tons, for emissions unit P061. Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative total combined OC emissions for each calendar month.

h. The amount of pigments (non-volatiles/solids) employed in tons.

i. 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 fabric filter control efficiency of (1-.98).

j. The company identification of each liquid organic cleanup material employed in this emissions unit.

k. A record of each liquid organic cleanup material employed in this emissions unit indicating, whether or not the liquid organic cleanup material is photochemically reactive as identified in OAC rule 3745-21-01(C)(5).

3. The permittee shall collect and record the following information each month for the entire facility:

a. The name and identification number of each HAP-containing ink produced;

b. The individual HAP content for each HAP of each HAP-containing ink in pounds of individual HAP per pound of HAP-containing ink, as produced;

c. The total combined HAP content of each HAP-containing ink in pounds of combined HAPs per pound of HAP-containing ink, as produced [sum all the individual HAP contents from (b)];

d. The number of pounds of each HAP-containing ink produced;

e. The name and identification of each HAP-containing cleanup material employed;

f. The individual HAP content for each HAP of each HAP-containing cleanup material, in pounds of individual HAP per pound of HAP-containing cleanup material, as applied;

g. The total combined HAP content of each HAP-containing cleanup material, in pounds of combined HAPs per pound of HAP-containing cleanup material, as applied [sum all the individual HAP contents from (f)];

h. The number of pounds of each HAP-containing cleanup material employed;

i. The total individual HAP emissions for each HAP from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (f) times (h) times (1-recovery %) for each HAP-containing cleanup material];

j. The total combined HAP emissions from all HAP-containing inks produced and HAP-containing cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) times (emission factor as referenced in term C.1.) for each HAP-containing ink plus the sum of (g) times (h) times (1-recovery %) for each HAP-containing 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 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 preceding 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 OC emissions in TPY for each calendar month for emissions unit P061. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total OC emissions in TPY for each calendar month for emissions unit P061.

3. The permittee shall submit quarterly reports which specify the updated rolling, 12-month summation of total Low VOC Category ink production in pounds for each calendar month for emissions unit P061. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total Low VOC Category ink production in pounds for each calendar month for emissions unit P061.

4. The permittee shall submit reports which specify the updated rolling, 12-month summation of

total High VOC Category ink production in pounds for each calendar month for emissions units P061. During the first 12 calendar months of operation following the issuance of this permit, the permittee shall submit reports which specify the cumulative total High VOC Category ink production in pounds for each calendar month for emissions unit P061.

5. The permittee shall submit deviation reports which identify all exceedances of the OC content limitations in terms A.2.b. and A.2.c.

6. The permittee shall submit deviation (excursion) reports which include the following information:

   a. An identification of each day during which the average hourly OC emissions from the inks produced exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day.

   b. An identification of each day during which the OC emissions from the inks produced exceeded 40 pounds per day, and the actual OC emissions for each such day.

7. The permittee shall notify the Hamilton County Department of Environmental Services in writing identifying each day during which any photochemically reactive cleanup material (as defined in OAC rule 3745-21-01(C)(5) was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive cleanup material(s) and the estimated total quantity of organic compound emissions emitted each such day. This report shall be submitted to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

8. 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 limitations in term A.2.b. and 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 terms C.1. and C.2.

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.2.

5. Compliance with the ink production limitations in term B.1. and B.2. shall be determined by the record keeping requirements as specified in term C.2.

6. Compliance with the HAPs limitations in term A.2.d. shall be determined by the record keeping requirements as specified in term C.3.

F. Miscellaneous Requirements

None