



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 13-03938

DATE: 7/3/2002

Weyerhaeuser Company
Sharon McCrea
6100 Hillcrest Drive
Valley View, OH 44125

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

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

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

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

Very truly yours,

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

cc: USEPA

CBAPC



**Permit To Install
Terms and Conditions**

**Issue Date: 7/3/2002
Effective Date: 7/3/2002**

FINAL PERMIT TO INSTALL 13-03938

Application Number: 13-03938
APS Premise Number: 1318577915
Permit Fee: **\$2200**
Name of Facility: Weyerhaeuser Company
Person to Contact: Sharon McCrea
Address: 6100 Hillcrest Drive
Valley View, OH 44125

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

**6100 Hillcrest Drive
Valley View, Ohio**

Description of proposed emissions unit(s):

Production equipment including 10 printer/single facers and 1 roll printer -- K001-K011.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

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

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

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Issued: 7/3/2002

Facility ID: 1318577915

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

SUMMARY (for informational purposes only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	60.0
Combined HAP	10.0

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
K001 - 30 inch Wolverine Printer Singlefacer (Machine 107).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)

40 CFR 63 Subpart KK

OAC rule 3745-35-07(B)
Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

15.37 lbs VOC/day for K001 from a combination of inks, coatings and adhesives.

2.81 tons VOC/year for K001 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons
1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;

Emissions Unit ID: **K001**

- g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;
 - k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l) , in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material $(b \times c)$, in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;

- f. the HAP contents of each cleanup material, as applied, in percent by weight;
- g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
- h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
- i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 15.37 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 2.81 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based

Emissions Unit ID: **K001**

on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;

- c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
- d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
15.37 lbs VOC/day for K001 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.1.m.

- b. Emission Limitation:
2.81 tons VOC/year for K001 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.e.

- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.i.

- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.h.

- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2.

In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K001**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K002 - 30 inch Wolverine Printer Singlefacer (Machine 108).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

17.30 lbs VOC/day for K002 from a combination of inks, coatings and adhesives.

3.16 tons VOC/year for K002 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons
1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;

- f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;
 - k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l) , in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
 3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;

- d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
- e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
- f. the HAP contents of each cleanup material, as applied, in percent by weight;
- g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
- h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
- i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 17.30 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 3.16 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the

actual rolling, 12-month combined HAP emissions for each such month;

- b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
- c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
- d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
17.30 lbs VOC/day for K002 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
3.16 tons VOC/year for K002 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.
 - c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
 - d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
 - e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
 - f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the

volatile matter of the coating and ink, as applied.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

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
K003 - 30 inch Wolverine Printer Singlefacer (Machine 109).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK
	OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

19.62 lbs VOC/day for K003 from a combination of inks, coatings and adhesives.

3.58 tons VOC/year for K003 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
 3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 19.62 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 3.58 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
19.62 lbs VOC/day for K003 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
3.58 tons VOC/year for K003 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

35

Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K003**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K004 - 40 inch Wolverine Printer Singlefacer (Machine 110).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK
	OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

13.68 lbs VOC/day for K004 from a combination of inks, coatings and adhesives.

2.50 tons VOC/year for K004 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 13.68 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 2.50 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
13.68 lbs VOC/day for K004 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
2.50 tons VOC/year for K004 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K004**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K005 - 30 inch Wolverine Printer Singlefacer (Machine 113).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

15.25 lbs VOC/day for K005 from a combination of inks, coatings and adhesives.

2.78 tons VOC/year for K005 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
 3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 15.25 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 2.78 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
15.25 lbs VOC/day for K005 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
2.78 tons VOC/year for K005 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K005**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K006 - 30 inch Wolverine Printer Singlefacers and 30 inch Post Folder Gluer (Machine 115).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

15.96 lbs VOC/day for K006 from a combination of inks, coatings and adhesives.

2.91 tons VOC/year for K006 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
 3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 15.96 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 2.91 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
15.96 lbs VOC/day for K006 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
2.91 tons VOC/year for K006 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K006**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K007 - 40 inch Wolverine Printer Singlefacer (Machine 116).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

72.22 lbs VOC/day for K007 from a combination of inks, coatings and adhesives.

13.18 tons VOC/year for K007 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 72.22 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 13.18 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
72.22 lbs VOC/day for K007 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
13.18 tons VOC/year for K007 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K007**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K008 - 40 inch Wolverine Printer Singlefacer (Machine 116B).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

72.22 lbs VOC/day for K008 from a combination of inks, coatings and adhesives.

13.18 tons VOC/year for K008 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 72.22 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 13.18 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
72.22 lbs VOC/day for K008 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
13.18 tons VOC/year for K008 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K008**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K009 - 40 inch Wolverine Printer Singlefacer (Machine 117).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

80.88 lbs VOC/day for K009 from a combination of inks, coatings and adhesives.

14.76 tons VOC/year for K009 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 80.88 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 14.76 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
80.88 lbs VOC/day for K009 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
14.76 tons VOC/year for K009 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K009**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K010 - 40 inch Wolverine Printer Singlefacer (Machine 118).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

26.74 lbs VOC/day for K010 from a combination of inks, coatings and adhesives.

4.88 tons VOC/year for K010 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 26.74 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 4.88 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
26.74 lbs VOC/day for K010 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
4.88 tons VOC/year for K010 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.e.
- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.i.
- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.
- Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.3.h.
- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K010**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K011 - 60 inch Wolverine Printer Singlefacer (Machine 119).	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(Y)(1)(a)(ii)
	40 CFR 63 Subpart KK OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

Applicable Emissions
Limitations/Control Measures

20.80 lbs VOC/day for K011 from a combination of inks, coatings and adhesives.

3.80 tons VOC/year for K011 from a combination of inks, coatings and adhesives.*

0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material.*

* as a 12-month rolling summation

The requirements of BAT also include compliance with the requirements of OAC rule 3745-21-09(Y)(1)(a)(ii) and 3745-35-07(B).

See Section A.2.b.

10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup.*

60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives.*

* as a 12-month rolling summation

See Section A.2.a

VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter in the coating and ink, as applied.

2. Additional Terms and Conditions

- 2.a** The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from the eleven sources in this permit shall not exceed 10.0 tons/year for any combination of HAPs. VOC emissions for the eleven emissions units in this permit are restricted to 60.0 tons/year. Compliance with the above limitations shall be based upon a rolling, 12-month summation.
- 2.b** In order to comply with the requirements of 40 CFR, Part 63, Subpart KK, the permittee has chosen to comply with 40 CFR 63.820(a)(2). The combined emissions from the entire facility shall not exceed the following as a rolling, 12-month summation:
- i. Use less than 9.1 Mg (10 tons) per each rolling 12-month period of each HAP at the facility, including materials used for source categories or purposes other than printing and publishing, and
 - ii. Use less than 22.7 Mg (25 tons) per each rolling 12-month period of any combination of HAP at the facility, including materials used for source categories or purposes other than printing and publishing.

B. Operational Restrictions

1. The maximum annual volatile organic material usage (from inks, coatings and adhesive) for K001 - K011 shall not exceed 60 tons, based upon a rolling, 12-month summation of the volatile organic material figures. This restriction will effectively limit combined HAPs emissions below 10 tons.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the volatile organic material usage levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Volatile Organic Material Usage for K001 - K011
1	5 tons
1-2	10 tons
1-3	15 tons
1-4	20 tons
1-5	25 tons
1-6	30 tons

1-7	35 tons
1-8	40 tons
1-9	45 tons
1-10	50 tons
1-11	55 tons
1-12	60 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual volatile organic material usage limitation shall be based upon a rolling, 12-month summation of the volatile organic material usage 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 number of each ink, coating, and adhesive, as applied;
 - b. the weight, in pounds per month, of each ink, as applied;
 - c. the weight, in pounds per month, of each coating, as applied;
 - d. the weight, in pounds per month, of each adhesive, as applied;
 - e. the VOC content of each ink (excluding water and exempt solvents), as applied, in percent by weight;
 - f. the VOC content of each coating (excluding water and exempt solvents), as applied, in percent by weight;
 - g. the VOC content of each adhesive (excluding water and exempt solvents), as applied, in percent by weight;
 - h. the total VOC emissions from all inks, coatings, and adhesives $[(b \times e) + (c \times f) + (d \times g)]$, in pounds per month;
 - i. the HAP contents of each ink, as applied, in percent by weight;
 - j. the HAP contents of each coating, as applied, in percent by weight;

- k. the HAP contents of each adhesive, as applied, in percent by weight;
 - l. the number of days of operation for this emissions unit for the month;
 - m. the average daily VOC emissions, calculated as (h/l), in pounds per day;
 - n. the total combined HAP emissions from all inks, coatings, and adhesives $[(b \times i) + (c \times j) + (d \times k)]$, in pounds per month;
 - o. the total ink, coating, and adhesive usage, calculated by summing the records from (b), (c), and (d) in pounds per month; and
 - p. the rolling, 12-month summation of VOC emissions, from all inks, coatings, and adhesives, in tons.
2. The permittee shall collect and record the VOC content of each coating and ink, in percent VOC by volume of the volatile matter in the coating and ink, as applied [calculated in accordance with the equation specified in paragraph (B)(8) of OAC rule 3745-21-10 for $C_{VOC,6}$].
3. The permittee shall collect and record the following information each month for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
- a. the name and identification number of each cleanup material employed;
 - b. the weight, in pounds per month, of each cleanup material employed;
 - c. the VOC content of each cleanup material, as applied, in percent by weight;
 - d. the total VOC emissions from all cleanup material (b x c), in pounds per month;
 - e. the rolling, 12-month summation of VOC emissions from all cleanup materials, in tons;
 - f. the HAP contents of each cleanup material, as applied, in percent by weight;
 - g. the total combined HAP emissions from all cleanup material (b x f), in pounds per month;
 - h. the rolling, 12-month summation of combined HAP emissions from all inks, coatings, adhesives, and cleanup material, in tons; and
 - i. the rolling, 12-month summation of VOC emissions from all inks, coatings, and adhesives, in tons.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings and inks (for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which include the following information for this emissions unit:
 - a. an identification of each month during which the daily VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 20.80 lbs/day, and the actual average daily VOC emissions for each such month; and
 - b. an identification of each month during which the VOC emissions, from the use of inks, coatings, and adhesives in this emissions unit, exceed 3.80 tons/yr, and the actual rolling, 12-month VOC emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which include the following information for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011:
 - a. an identification of each month during which the rolling, 12-month combined HAP emissions, from the use of inks, coatings, adhesives, and cleanup material in these emissions units, exceed 10.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month combined HAP emissions for each such month;
 - b. an identification of each month during which the rolling, 12-month VOC emissions, from the use of inks, coatings, and adhesives in these emissions unit, exceed 60.0 tons/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month;
 - c. an identification of each month during which the rolling, 12-month volatile organic material usage exceeded 60 tons, and the actual rolling, 12-month usage; and
 - d. an identification of each month during which the rolling, 12-month VOC emissions, from the use of cleanup materials in these emissions unit, exceed 0.07 ton/yr based on a rolling, 12-month summation, and the actual rolling, 12-month VOC emissions for each such month.

All deviation (excursion) reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.

4. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. As required by 40 CFR 63.830(b)(1), the permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than May 30, 1998 that contains the following information:
 - a. the name, title and address of the owner or operator;
 - b. the address (i.e., physical location) of the affected source;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source; and
 - e. a brief description of each affected emissions unit, including the type of process operation performed.

E. Testing Requirements

1. Compliance with the emission limitation(s) and operational restriction specified in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
20.80 lbs VOC/day for K011 from a combination of inks, coatings and adhesives.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.m.
 - b. Emission Limitation:
3.80 tons VOC/year for K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:
Compliance shall be determined based upon the record keeping specified in Section C.1.p.

- c. Emission Limitation:
0.07 ton VOC/year for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 for all cleanup material, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.e.

- d. Emission Limitation:
60.0 tons VOC/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings and adhesives, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.i.

- e. Emission Limitation:
10.0 tons combined HAPs/yr for K001, K002, K003, K004, K005, K006, K007, K008, K009, K010 and K011 from a combination of inks, coatings, adhesives and cleanup, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be determined based upon the record keeping specified in Section C.3.h.

- f. Emission Limitation:
VOC content of each coating and ink not to exceed 25 percent VOC by volume of the volatile matter of the coating and ink, as applied.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24A shall be used to determine the VOC contents of the coatings and inks. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24A.

F. Miscellaneous Requirements

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Weyerhaeuser Company
PTI Application: 12 03020
Issued

Facility ID: 1318577915

Emissions Unit ID: **K011**

None