

Facility ID: 1431330487 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431330487 Emissions Unit ID: R002 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Heatset Web Offset Press #460	3745-17-07(A)	Less than or equal to 20 percent opacity, as a 6-minute average, from the stack, except as provided by rule.
	3745-17-10	.020 Lb/MMBtu of actual heat input for products of combustion from the dryer.
	3745-17-11(A)	0.551 LB PM/HR for emissions from the dryer that originate from the inks and fountain solutions.
	3745-21-07(G)	See T&C B.2

**2. Additional Terms and Conditions**

- (a) The organic compound (OC) emissions from this emissions unit shall not exceed the following:
  - Ink 3.3 tons OC/month 39.5 tons OC/year
  - Blanket/roller wash 0.6 ton OC/month 7.1 tons OC/year
  - Fountain Solution 0.084 ton OC/month 1.0 ton OC/year
  - The following OC content limitations shall not be exceeded:
    - i. 3.7 pounds OC per gallon ink, as applied;
    - ii. 6.4 pounds OC per gallon blanket/roller wash (cleanup), based on a monthly volume-weighted average, as applied; and
    - iii. 0.1 pound OC per gallon fountain solution, as applied.

**B. Operational Restrictions**

1. The following usage limitations shall not be exceeded:
  - a. 2245 gallons of ink per month, as applied;
  - b. 185 gallons of blanket/roller wash (cleanup) per month, as applied; and
  - c. 2084 gallons of fountain solution per month, as applied.
2. The use of photochemically reactive materials, as defined in OAC 3745-21-01(C)(5), is prohibited.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and record the following information for each month for the emissions unit:
  - a. The company identification for each ink, fountain solution, and blanket/roller wash (cleanup) employed.
  - b. The number of gallons of each ink, fountain solution, and blanket/roller wash (cleanup) employed.
  - c. The number of gallons of all inks, of all fountain solutions and of all blanket/roller wash (cleanup) employed.
  - d. The OC content of each ink and fountain solution, in pounds per gallon, as applied.
  - e. The monthly volume-weighted average OC content of all blanket/roller wash (cleanup), in pounds per gallon,

as applied.

f. The OC emission rate for each ink, fountain solution and blanket/roller wash (cleanup), in tons per month.

g. The OC emission rate for all inks, for all fountain solutions and for all blanket/roller wash (cleanup) employed, in tons per month.

**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 this emissions unit exceeded the OC content limits, the monthly usage limits and/or the monthly emission limits specified in sections A.2 and B.1. The notification shall include a copy of such record and shall be sent to the Director, or authorized representative, within 45 days after the exceedance occurs.
2. The permittee shall submit annual reports which specify the total OC emissions for the inks, for the fountain solutions and for the blanket/roller wash employed during the preceding year.

Each report shall be submitted by February 15 of each year and shall cover the previous calendar year (January through December).

**E. Testing Requirements**

1. a. Emissions from inks, in tons, shall be determined by the following method:  
OC content of each coating x (1 - 0.20 solvent retention) x number of gallons per month or year / 2000 pounds.
- b. Emissions from fountain solution or blanket/roller wash, in tons, shall be determined by the following method:  
OC content of fountain solution or blanket/roller wash x number of gallons of each per month or year / 2000 pounds.
- c. Formulation data or USEPA Method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents.
- d. Compliance with the usage limitations shall be demonstrated by T&C C.1.
- e. Compliance with the emission limitation of .020 LB PM/MMBtu of actual heat input for products of combustion from the dryer shall be demonstrated by the use of emission factors found in AP-42, Fifth Edition, Chapter 1, External Combustion Sources. Also, if required, emission tests may be performed in accordance with USEPA Methods 1 - 5.
- f. Compliance with the emission limitation of 0.551 LB PM/Hr for emissions from the dryer which originate from the inks and fountain solutions shall be demonstrated the following equation:  
$$\text{Lb. PM/Hr} = \text{Weight of gallon of coating} \times \% \text{ by weight of solids} \times \text{gallons of coatings per hour} \times \text{TE}(\text{transfer eff.}) \times \text{CE}(\text{control eff.})$$

Also, if required, emission tests may be performed in accordance with USEPA Methods 1 - 5.
- g. Compliance with OAC rule 3745-17-07 shall be determined using USEPA Method 9.

**F. Miscellaneous Requirements**

1. The special term(s) and condition(s) as outlined in Part II Subparts A, B, C, D, E, and F of this permit to operate are federally enforceable requirements.