



State of Ohio Environmental Protection Agency

**Medina County**

**RE: Final Permit to Install**

Street  
1800 \  
Column

Address:  
149  
16-1049

Application No: **16-1879**

DATE: February 18, 1999

**Republic Powdered Metals, Inc**  
**Bruce Yule**  
**P.O. Box 724**  
**Medina, OH 44256**

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 Director's 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  
Akron Regional Air Quality



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Application Number: 16-1879

Permit  
Title

APS Premise Number: 1652050077

Permit Fee: **\$2,200.00**

Name of Facility: Republic Powdered Metals, Inc

Person to Contact: Bruce Yule

Address: P.O. Box 724  
Medina, OH 44256

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

**2628 PEARL ROAD  
BRUNSWICH HILLS, OH**

Description of proposed emissions unit(s):

**OIL BASED PAINT MIXING AREA, ROOF COATING PRODUCTION, AND LATEX PAINT MIXING.**

Date of Issuance: February 18, 1999

Effective Date:

February 18, 1999

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

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Director

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

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

#### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

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

#### **3. Records Retention Requirements**

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

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

#### **5. Scheduled Maintenance/Malfunction Reporting**

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

#### **6. Permit Transfers**

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

#### **7. Air Pollution Nuisance**

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

#### **8. Termination of Permit to Install**

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

#### **9. Construction of New Sources(s)**

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

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

#### **10. Public Disclosure**

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

#### **11. Applicability**

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

#### **12. Best Available Technology**

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

#### **13. Source Operation and Operating Permit Requirements After Completion of**

## **Construction**

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

### **14. Construction Compliance Certification**

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>
Particulate	41.14
Organics	57.43

**Republic Powdered Metals, Inc.**

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**Part II: Special Terms and Conditions****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 <u>Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OB #1 mix vat - oil based paint and primer process, one mix vat (916 gallons), a hydraulic mixer (HSDD), and filling packaging through a closed fill pot	OAC rule 3745-31-05	8.0 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC
		5% opacity as a 6-minute average (stack emissions)
		2.34 lbs/hr particulates 10.25 TPY particulates
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

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Facility ID: **1652050077**  
Emissions Unit ID: **P005**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the

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manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

3. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each batch during which the average hourly organic compound emissions from the daily production exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for the daily production; and,
  - b. an identification of each day during which the organic compound emissions

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exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

3. The permittee shall submit required reports in the following manner:

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- a. reports of any required monitoring and/or Recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency; and,
- 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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

- a. Emission Limitation:

8.0 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.2 and C.3 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

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$$\text{Hourly OC Emissions} = \Sigma \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} * (1 - \text{CF}) / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

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Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 1.5%;

CF = control factor, (Control of VOC emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1), 40%; and

Time = daily production time, in hours.

**b. Emission Limitation:**5% opacity as a 6-minute average  
(stack emissions)**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

2.34 lbs/hr particulates

10.25 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions**

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OB #2 mix vat - oil based paint and primer process, one mix vat (916 gallons), a hydraulic mixer, and filling packaging through a closed fill pot	OAC rule 3745-31-05	8.0 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC
		5% opacity as a 6-minute average (stack emissions)
		2.34 lbs/hr particulates 10.25 TPY particulates
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water while the emissions unit is in operation.

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's

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recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall collect and record the following information for each and every day of production:

a. the production date and identification numbers of batches produced;

b. the batch size, in gallons;

c. the batch density, in pounds per gallon;

d. the batch solvent content, in weight percent;

e. the daily cycle time for emission unit, in hours; and,

f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

3. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each batch during which the average hourly organic compound emissions from the daily production exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for the daily production; and,
  - b. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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3. 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; and,

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- 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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

8.0 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.2 and C.3 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \sum \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} * (1 - \text{CF}) / \text{Time}$$

Where:

$$\text{Hourly OC Emissions} = \text{average hourly OC emission rate for}$$

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the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

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Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 1.5%;

CF = control factor, (Control of VOC emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1), 40%; and

Time = daily production time, in hours.

**b. Emission Limitation:**

5% opacity as a 6-minute average  
(stack emissions)

**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

2.34 lbs/hr particulates  
10.25 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions**

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OB #3 mix vat - oil based paint and primer process, two mix vats (400 gallons), five mix vats (200 gallons), a hydraulic mixer, and filling packaging through a closed fill pot	OAC rule 3745-31-05	8.0 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC  5% opacity as a 6-minute average (stack emissions)  2.34 lbs/hr particulates 10.25 TPY particulates
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water

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while the emissions unit is in operation.

Facility ID: **1652050077**

Emissions Unit ID: **P007**

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

3. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each batch during which the average hourly organic compound emissions from the daily production exceeded 8 pounds per hour, and the actual average

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hourly organic compound emissions for the daily production; and,

- b. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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3. 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; and,
  - 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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

8.0 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.2 and C.3 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

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$$\text{Hourly OC Emissions} = \Sigma \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} * (1 - \text{CF}) / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 1.5%;

CF = control factor, (Control of VOC emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1), 40%; and

Time = daily production time, in hours.

b. Emission Limitation:

5% opacity as a 6-minute average  
(stack emissions)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

c. Emission Limitation:

2.34 lbs/hr particulates  
10.25 TPY particulates

Applicable Compliance Method:

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If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OB fill #1 - packaging of oil based paint, 25 gallon filter fill pot connected to one in 30 gall/min pump or 200 gal gravity feed tank	OAC rule 3745-31-05	7.71 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

None.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each and every batch filled:
  - a. the filling date and ticket identification number;
  - b. the filling rate, in gallons per hour;
  - c. the paint density, in pounds per gallon;

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- d. the paint solvent content, in weight percent;
- e. the fill running time, in hours; and

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- f. the calculated average hourly OC emission rate for each batch filled, ie.  $(b)*(c)*(d)*(0.5\%)/(e)$ , in pounds of OC per hour (average).

Filtration loss factor of 0.5% is used for the emission calculation for the transfer of paint.

2. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each filling run during which the average hourly organic compound emissions from the filling operation exceeded 7.71 pounds per hour, and the actual average hourly organic compound emissions for each such transfer operation; and,
  - b. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. 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; and,
  - 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.)

**E. Testing Requirements**

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1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

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a. Emission Limitation:

7.71 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.1 and C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
OB fill #2 - packaging of oil based paint, 25 gallon filter fill pot connected to one in 30 gall/min pump or 200 gal gravity feed tank	OAC rule 3745-31-05	7.71 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

None.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each and every batch filled:
  - a. the filling date and ticket identification number;
  - b. the filling rate, in gallons per hour;
  - c. the paint density, in pounds per gallon;

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- d. the paint solvent content, in weight percent;
- e. the fill running time, in hours; and,

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- f. the calculated average hourly OC emission rate for each batch filled, ie.  $(b)*(c)*(d)*(0.5\%)/(e)$ , in pounds of OC per hour (average).

Filtration loss factor of 0.5% is used for the emission calculation for the transfer of paint.

2. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each filling run during which the average hourly organic compound emissions from the filling operation exceeded 7.71 pounds per hour, and the actual average hourly organic compound emissions for each such transfer operation; and,
  - b. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. 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; and,
  - 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.)

**E. Testing Requirements**

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1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

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a. Emission Limitation:

7.71 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.1 and C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
RC #8 mixer - roof coatings and adhesives, one mix vat (685 gallons) and a 15 HP electric mixer	OAC rule 3745-31-05	8.0 lbs/hr organic compounds (OC) 40.0 lbs/day OC 7.3 TPY OC
		5% opacity as a 6-minute average (stack emissions)
		1.58 lbs/hr particulates 6.92 TPY particulates
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of

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water while the emissions unit is in operation.

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

3. The permittee shall calculate, on a monthly basis, calculate and record the daily OC emission rate for this emissions unit, in pounds per day.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. an identification of each batch during which the average hourly organic compound emissions from the daily production exceeded 8 pounds per hour, and the actual average

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hourly organic compound emissions for the daily production; and,

- b. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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3. 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; and,
  - 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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

8.0 lbs/hr organic compounds (OC)

40.0 lbs/day OC

7.3 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of sections C.2 and C.3 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \sum \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} * (1 - \text{CF}) / \text{Time}$$

Where:

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Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 1.5%;

CF = control factor, (Control of VOC emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1), 40%; and

Time = daily production time, in hours.

**b. Emission Limitation:**

5% opacity as a 6-minute average  
(stack emissions)

**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

1.58 lbs/hr particulates  
6.92 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

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Emissions Unit ID: **P010**

None.

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**Part II: Special Terms and Conditions**

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Latex fill equipment - 2 filter pots	OAC rule 3745-31-05	0.72 lb/hr organic compounds (OC) 3.15 TPY OC
	OAC rule 3745-21-07(G)(2)	See A.2.a below

2. **Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

None.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each and every batch filled:
  - a. the filling date and ticket identification number;
  - b. the filling rate, in gallons per hour;
  - c. the paint density, in pounds per gallon;

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- d. the paint solvent content, in weight percent;
- e. the fill running time, in hours; and
- f. the calculated average hourly OC emission rate for each batch filled, ie.  $(b)*(c)*(d)*(0.3\%)/(e)$ , in pounds of OC per hour (average).

Filtration loss factor of 0.3% is used for the emission calculation for the transfer of paint.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include an identification of each filling run during which the average hourly organic compound emissions from the filling operation exceeded 0.72 pound per hour, and the actual average hourly organic compound emissions for each such transfer operation.
2. 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; and,
  - 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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):
  - a. Emission Limitation:

0.72 lb/hr organic compounds (OC)  
3.15 TPY OC

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Emissions Unit ID: **P011**

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of section C.1 of these T&C's.

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 organic compound contents of the coatings and inks.

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**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
LB-2 mix vat - latex based paint process, one mix vat (800 gal) and a 50 hp electric mixer	OAC rule 3745-31-05	0.91 lb/hr organic compounds (OC) 3.99 TPY OC
		0.86 lb/hr particulate 3.77 TPY particulates
		5% opacity as a 6-minute average (stack emissions)
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water while the emissions unit is in operation.

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be

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installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day of production during which the average hourly organic compound emissions from the daily production exceeded 0.91 pound per hour, and the actual average hourly organic compound emissions for the daily production.
3. 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; and,
  - b. except as otherwise may be provided in the terms and conditions for a specific emissions

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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

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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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

0.91 lb/hr organic compounds (OC)

3.99 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of section C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \sum \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

Solvent = batch solvent content, in weight percent;

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Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 0.75%; and,

Time = daily production time, in hours.

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**b. Emission Limitation:**

5% opacity as a 6-minute average  
(stack emissions)

**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

0.86 lb/hr particulates  
3.77 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****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 <u>Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
LB-3 mix vat - latex based paint process, one mix vat (800 gal) and a 50 hp electric mixer	OAC rule 3745-31-05	0.91 lb/hr organic compounds (OC) 3.99 TPY OC
		0.86 lb/hr particulate 3.77 TPY particulates
		5% opacity as a 6-minute average (stack emissions)
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7

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inches of water while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be

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installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day of production during which the average hourly organic compound emissions from the daily production exceeded 0.91 pound per hour, and the actual average hourly organic compound emissions for the daily production.
3. 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; and,
  - b. except as otherwise may be provided in the terms and conditions for a specific

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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

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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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

0.91 lb/hr organic compounds (OC)  
3.99 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of section C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \sum \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

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Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 0.75%; and

Time = daily production time, in hours.

**b. Emission Limitation:**

5% opacity as a 6-minute average  
(stack emissions)

**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

0.86 lb/hr particulates  
3.77 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
LB-4 mix vat - latex based paint process, one mix vat (400 gal) and a 50 hp electric mixer	OAC rule 3745-31-05	0.57 lb/hr organic compounds (OC) 2.50 TPY OC
		0.41 lb/hr particulate 1.80 TPY particulates
		5% opacity as a 6-minute average (stack emissions)
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water while the emissions unit is in operation.

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be

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installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day of production during which the average hourly organic compound emissions from the daily production exceeded 0.57 pounds per hour, and the actual average hourly organic compound emissions for the daily production.
3. 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; and,
  - 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

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permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken,

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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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

0.57 lb/hr organic compounds (OC)

2.50 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of section C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \Sigma \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

Wt. = batch density, in pounds per gallon;

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Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 0.75%; and

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Time = daily production time, in hours.

**b. Emission Limitation:**5% opacity as a 6-minute average  
(stack emissions)**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**0.41 lb/hr particulates  
1.80 TPY particulates**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.

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**Part II: Special Terms and Conditions****A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
LB-5 mix vats - latex based paint process, 2 mix vats (200 gal), 3 mix vats (75 gal) and a 20 hp electric mixer	OAC rule 3745-31-05	0.38 lb/hr organic compounds (OC) 1.66 TPY OC
		0.24 lb/hr particulate 1.05 TPY particulates
		5% opacity as a 6-minute average (stack emissions)
	OAC rule 3745-17-07	See A.2.a below
	OAC rule 3745-17-11	See A.2.a below
	OAC rule 3745-21-07(G)(2)	See A.2.a below

**2. Additional Terms and Conditions**

- a. The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4 - 7 inches of water while the emissions unit is in operation.

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Emissions Unit ID: **P015**

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**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall collect and record the following information for each and every day of production:
  - a. the production date and identification numbers of batches produced;
  - b. the batch size, in gallons;
  - c. the batch density, in pounds per gallon;
  - d. the batch solvent content, in weight percent;
  - e. the daily cycle time for emission unit, in hours; and,
  - f. the calculated average hourly OC emission rate for the daily production, in pounds of OC per hour (average).

Hourly OC emissions shall be calculated based upon the methodology as stated in section E.1.a. (following).

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which include an identification of each day of production during which the average hourly organic compound emissions from the daily production exceeded 0.38 pound per hour, and the actual average hourly organic compound emissions for the daily production.
3. The permittee shall submit required reports in the following manner:

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

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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.)

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Permit to Install 16-1879 shall be determined in accordance with the following method(s):

a. Emission Limitation:

0.38 lb/hr organic compounds (OC)

1.66 TPY OC

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the recordkeeping requirements of section C.2 of these T&C's.

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 organic compound contents of the coatings and inks.

Hourly OC emissions shall be calculated based upon the following methodology:

$$\text{Hourly OC Emissions} = \Sigma \{ \text{Size} * \text{Wt.} * \text{Solvent} \} * \text{EF} / \text{Time}$$

Where:

Hourly OC Emissions = average hourly OC emission rate for the day's production in permitted unit, in pounds per hour;

Size = batch size, in gallons;

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Wt. = batch density, in pounds per gallon;

Solvent = batch solvent content, in weight percent;

Size, Wt., and Solvent will be summed for each permitted unit for the day's production.

EF = solvent loss emission factor (AP-42, Section 6.4), 0.75%; and

Time = daily production time, in hours.

**b. Emission Limitation:**

5% opacity as a 6-minute average  
(stack emissions)

**Applicable Compliance Method:**

OAC rule 3745-17-03(B)(1)

**c. Emission Limitation:**

0.24 lb/hr particulates  
1.05 TPY particulates

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None.