



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

12/18/2009

Certified Mail

DANIEL NAYDER  
REPUBLIC POWDERED METALS  
2628 PEARL RD  
MEDINA, OH 44256

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 1652050077  
Permit Number: P0105375  
Permit Type: Initial Installation  
County: Medina

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Akron Regional Air Quality Management District. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc).

Sincerely,

*Michael W. Ahern*  
Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: ARAQMD

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
REPUBLIC POWDERED METALS**

Facility ID: 1652050077  
Permit Number: P0105375  
Permit Type: Initial Installation  
Issued: 12/18/2009  
Effective: 12/18/2009  
Expiration: 12/18/2014





**Air Pollution Permit-to-Install and Operate**  
for  
**REPUBLIC POWDERED METALS**

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**Final Permit-to-Install and Operate**  
**Permit Number:** P0105375  
**Facility ID:** 1652050077  
**Effective Date:** 12/18/2009

# Authorization

Facility ID: 1652050077  
Application Number(s): A0037428, A0038629  
Permit Number: P0105375  
Permit Description: FEPTIO renewal  
Permit Type: Initial Installation  
Permit Fee: \$3,850.00  
Issue Date: 12/18/2009  
Effective Date: 12/18/2009  
Expiration Date: 12/18/2014  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

REPUBLIC POWDERED METALS  
2628 PEARL RD  
Medina, OH 44256

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Akron Regional Air Quality Management District  
146 South High Street, Room 904  
Akron, OH 44308  
(330)375-2480

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



## Authorization (continued)

Permit Number: P0105375  
Permit Description: FEPTIO renewal

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

**Emissions Unit ID: P011**  
Company Equipment ID: LBFILL#1  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P016**  
Company Equipment ID: Roof Coating #1  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P023**  
Company Equipment ID: TBS Process  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Group Name: Latex-based mixing vats**

**Emissions Unit ID: P012**  
Company Equipment ID: LB#2  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P013**  
Company Equipment ID: LB#3  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P014**  
Company Equipment ID: LB#4  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P015**  
Company Equipment ID: LB#5  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Group Name: Oil-based filling lines**

**Emissions Unit ID: P008**  
Company Equipment ID: OBFILL#1  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Emissions Unit ID: P009**  
Company Equipment ID: OBFILL#2  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable

**Group Name: Oil-based mixing vats**

**Emissions Unit ID: P005**  
Company Equipment ID: OB#1



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Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P006</b>
Company Equipment ID:	OB#2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P007</b>
Company Equipment ID:	OB#3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

**Group Name: Roof-coating mixing vats**

<b>Emissions Unit ID:</b>	<b>P017</b>
Company Equipment ID:	Roof Coating #2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P018</b>
Company Equipment ID:	Roof Coating #3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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**Facility ID:** 1652050077

**Effective Date:** 12/18/2009

## **A. Standard Terms and Conditions**



**1. What does this permit-to-install and operate ("PTIO") allow me to do?**

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

**2. Who is responsible for complying with this permit?**

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

**3. What records must I keep under this permit?**

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

**4. What are my permit fees and when do I pay them?**

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

**5. When does my PTIO expire, and when do I need to submit my renewal application?**

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

**6. What happens to this permit if my project is delayed or I do not install or modify my source?**

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

**7. What reports must I submit under this permit?**

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

**8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?**

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

**9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?**

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



**10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?**

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Akron Regional Air Quality Management District in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

**11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?**

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

**12. What happens if one or more emissions units operated under this permit is/are shut down permanently?**

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

**13. Can I transfer this permit to a new owner or operator?**

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

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**Effective Date:** 12/18/2009

change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

**14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?**

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

**15. What happens if a portion of this permit is determined to be invalid?**

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



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## **B. Facility-Wide Terms and Conditions**



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**Effective Date:** 12/18/2009

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



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**Effective Date:** 12/18/2009

## **C. Emissions Unit Terms and Conditions**



**1. P011, LBFILL#1**

**Operations, Property and/or Equipment Description:**

LBFILL#1

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 1.1 pounds per hour, and 4.8 tons per year.
b.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.
c.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	The OC emission limitations based on this rule are less stringent than the limitations established pursuant to OAC rule 3745-31-05.
d.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii) (OC potential to emit does not exceed 40 pounds per day)



(2) Additional Terms and Conditions:

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)c.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)d.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following for each and every batch filled:

- a. The filling date and product identification number;
- b. The number of gallons filled;
- c. The paint density, in pounds per gallon;
- d. The VOC content of each batch, as a weight fraction;
- e. The filling running time, in hours;
- f. The calculated VOC emission rate for each batched filled, i.e.,  $(b) \cdot (c) \cdot (d) \cdot (0.005)$ , in pounds per day; and
- g. The average hourly VOC emission rate, i.e.,  $(\text{the summation of (f) for all batched filled}) / (e)$ , in pounds per hour.



A filtration loss factor of 0.005 is used for the transfer of paint.

- (2) The permittee shall calculate and record the daily VOC emission rate from this emissions unit in pounds per day, i.e., the summation of the VOC emissions from all batched filled each day.
- (3) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (4) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month period (for entire facility)
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:



1.1 pounds per hour, and 4.8 tons per year OC

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above hourly OC emission limitation based upon the record keeping requirements of d)(1)

The annual emission limitation was established by multiplying the hourly limitaito0n by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is maintained, compliance with the annual limitation shall be assumed.

b. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in d)(3) and d)(4).

- (2) 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.

g) Miscellaneous Requirements

- (1) None.



**2. P016, Roof Coating #1**

**Operations, Property and/or Equipment Description:**

Roof Coating #1

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11	PE shall not exceed 0.843 pounds per hour. (based on 189 pounds/hr maximum process weight rate)
c.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	Organic compounds (OC) emissions shall not exceed 8.0 pounds per hour, and 40.0 pounds per day.
d.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.
e.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii). (OC potential to emit does not exceed 40 pounds per day)



(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)c, d)(3)e, and d)(3)g.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)e.

- d. The emissions from the emissions units listed above shall be vented to the baghouse when one or more of the emissions units are in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 7 inches of water.
- (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.



Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (3) The permittee shall collect and record the following information for each and every day of production:
  - a. The production date and identification number of each batch produced;



- b. The batch size, in gallons;
- c. The batch density, in pounds per gallon;
- d. The VOC content of each batch, in weight percent;
- e. The daily cycle time for the emissions unit, in hours;
- f. The daily VOC emission rate, in pounds per day, i.e., the summation of the emissions from each batch produced that day; and
- g. The calculated average hourly VOC emission rate for the daily production of VOC per hour (average).

VOC emissions shall be calculated based upon the methodology specified in sections f)(1)c below.

- (4) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (5) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month [for entire facility].
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date



identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
  - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
  
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Methods:  
  
If required, the permittee shall demonstrate compliance with the VE limitation above in accordance with methods as outlined in OAC rule 3745-17-03(B)(1).
  - b. Emission Limitations:  
  
0.843 pounds per hour PE  
  
Applicable Compliance Methods:  
  
If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 – 5 of 40 CFR Part 60, Appendix A.
  - c. Emission Limitations:  
  
8.0 pounds per hour OC



40 pounds per day OC

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements in d)(3) and d)(4).

Daily and hourly emissions shall be calculated in accordance with the following equations:

Daily VOC Emissions = [Summation of (Size \* Density \* Weight Fraction \* EF \* (1-CF)) for all batched produced during the day]

Where:

Daily VOC Emissions = VOC emission rate for the day's production, in pounds per day;

Size = batch size, in gallons;

Density = batch density, in pounds per gallon;

Weight Fraction = VOC content of each batch, as a weight fraction;

EF = solvent loss emission factor (AP-42, Section 6.4), 0.015; and

CF = control factor (from Control of VOC Emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1) of 0.40, based on the use of a cover for the tank.

Hourly VOC emissions = Daily VOC emissions / Time

Where:

Time = total daily production time, in hours.

d. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements of d)(4) and d)(5).

(2) 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 of the cleanup materials, coatings, and inks.

g) Miscellaneous Requirements

(1) None.



**3. P023, TBS Process**

**Operations, Property and/or Equipment Description:**

TBS Process

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 0.39 pounds per hour, and 1.70 tons per year.  Particulate emissions (PE) shall not exceed 1.34 pounds per hour, and 5.86 tons per year.  Visible PE shall not exceed 10% opacity as a 6-minute average.
b.	OAC rule 3745-17-07	Less stringent than the limit established pursuant to OAC rule 3745-31-05.
c.	OAC rule 3745-17-11	Less stringent than the limit established pursuant to OAC rule 3745-31-05.
d.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	The OC emission limitations based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
e.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		(OC potential to emit does not exceed 40 pounds per day)
f.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.

(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)d.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)e.

- d. The emissions from the emissions units listed above shall be vented to the baghouse when one or more of the emissions units are in operation.

c) Operational Restrictions

- (1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 7 inches of water.
- (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.



This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (3) The permittee shall collect and record the following information for each and every day of production:
  - a. The number of batches produced in this emissions unit; and
  - b. The daily cycle time for the emissions unit, in hours.
- (4) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (5) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons OC per rolling, 12-month (for the entire facility).
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall



cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
- a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

Visible PE shall not exceed 10% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance in accordance with the methods as outlined in OAC rule 3745-17-03(B)(1).

b. Emission Limitations:

1.34 pounds per hour PE, and 5.86 tons per year

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 – 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the hourly limitaito0n by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is maintained, compliance with the annual limitation shall be assumed.



c. Emission Limitations:

0.39 lbs/hr OC, and 1.70 tons/year OC

Applicable Compliance Methods:

Compliance with the hourly emission limitation can be demonstrated by calculations representing the worst-case potential to emit.

Maximum Process Operation	Emission factor (# OC/batch)
Filling to TBS01	0.32
Packaging from TBS02	0.32
Filling TT from AST17	0.38
Filling TT from AST18	0.38
Total	1.4

Emission factors based on working/breathing losses from filling of tanks and based on USEPA Tanks 4.0 program with all emissions being composed of mineral spirits. Calculation results in hourly emission as worst case batch time submitted of 1 hour. Thus, maximum hourly potential to emit is 1.4 lbs/hr OC.

The annual emission limitation was established by multiplying the hourly limitaito0n by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is maintained, compliance with the annual limitation shall be assumed.

d. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in d)(4) and d)(5).

g) Miscellaneous Requirements

(1) None.



**4. Emissions Unit Group - Latex-based mixing vats: P012, P013, P014, P015,**

EU ID	Operations, Property and/or Equipment Description
P012	LB#2
P013	LB#3
P014	LB#4
P015	LB#5

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Visible particulate emissions (PE) shall not exceed 5% opacity as a 6-minute average.  Organic compound emissions shall not exceed 1.01 pounds per hour, and 4.42 tons per year.  Particulate emissions shall not exceed 1.95 pounds per hour, and 8.54 tons per year. (based on 660 pounds/hour maximum process weight rate)
b.	OAC rule 3745-17-07	The VE limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
c.	OAC rule 3745-17-11	The PE limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	The OC emission limitations based on this rule are less stringent than the limit established pursuant to OAC rule 3745-31-05.
e.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii) (OC potential to emit does not exceed 40 pounds per day)
f.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.

(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)d.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)e.

- d. The emissions from the emissions units listed above shall be vented to the baghouse when one or more of the emissions units are in operation.



- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 7 inches of water.
  - (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.



Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (3) The permittee shall collect and record the following information for each and every day of production:
  - a. The production date and identification number of each batch produced;
  - b. The batch size, in gallons;
  - c. The batch density, in pounds per gallon;
  - d. The VOC content of each batch, in weight percent;
  - e. The daily cycle time for the emissions unit, in hours;
  - f. The daily VOC emission rate, in pounds per day, i.e., the summation of the emissions from each batch produced that day; and
  - g. The calculated average hourly VOC emission rate for the daily production of VOC per hour (average).

VOC emissions shall be calculated based upon the methodology specified in sections f)(1)c below.

- (4) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (5) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month (for entire facility).



- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
  - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:



Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance with the VE limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A,

b. Emission Limitations:

1.95 lbs/hr PE, and 8.54 tons per year

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 – 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year and dividing by 2000 to convert to tons. Therefore, compliance with the annual limitation will be ensured if compliance with the hourly limitation is maintained.

c. Emission Limitations:

1.01 lbs/hr OC, and 4.42 tons per year

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements in d)(3) and d)(4).

Daily and hourly emissions shall be calculated in accordance with the following equations:

$$\text{Daily VOC Emissions} = [\text{Summation of } (\text{Size} * \text{Density} * \text{Weight Fraction} * \text{EF} * (1-\text{CF})) \text{ for all batches produced during the day}]$$

Where:

Daily VOC Emissions = VOC emission rate for the day's production, in pounds per day;

Size = batch size, in gallons;

Density = batch density, in pounds per gallon;

Weight Fraction = VOC content of each batch, as a weight fraction;

EF = solvent loss emission factor (AP-42, Section 6.4), 0.015; and

CF = control factor (from Control of VOC Emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1) of 0.40, based on the use of a cover for the tank.



Hourly VOC emissions = Daily VOC emissions / Time

Where:

Time = total daily production time, in hours.

d. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in d)(4) and d)(5).

- (2) 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 of the cleanup materials, coatings, and inks

g) Miscellaneous Requirements

- (1) None.



**5. Emissions Unit Group - Oil-based filling lines: P008, P009,**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P008	OBFILL#1
P009	OBFILL#2

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day, and 7.3 tons per year.
b.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	The limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
c.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii)  (OC potential to emit does not exceed 40 pounds per day)
d.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.



(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)b.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)c.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following for each and every batch filled:

- a. The filling date and ticket identification number;
- b. The number of gallons filled;
- c. The paint density, in pounds per gallon;
- d. The VOC content of each batch, as a weight fraction;
- e. The filling running time, in hours;
- f. The calculated VOC emission rate for each batched filled, i.e.,  $(b) \cdot (c) \cdot (d) \cdot (0.005)$ , in pounds per day; and
- g. The average hourly VOC emission rate, i.e.,  $(\text{the summation of (f) for all batched filled}) / (e)$ , in pounds per hour.



A filtration loss factor of 0.005 is used for the transfer of paint.

- (2) The permittee shall calculate and record the daily VOC emission rate from this emissions unit in pounds per day, i.e., the summation of the VOC emissions from all batched filled each day.
- (3) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (4) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month [for entire facility].
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitations:

8.0 lbs/hr OC, 40 lbs/day, 7.3 tons/year

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limitations based upon the record keeping requirements in d)(1) and d)(2).

b. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements of d)(3) and d)(4).

- (2) 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.

g) Miscellaneous Requirements

- (1) None.



**6. Emissions Unit Group - Oil-based mixing vats: P005, P006, P007,**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P005	OB#1
P006	OB#2
P007	OB#3

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3)	<p>Visible particulate emissions (PE) shall not exceed 5% opacity, as a 6-minute average.</p> <p>Organic compound emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day, and 7.3.</p> <p>Particulate emissions shall not exceed 1.83 pounds per hour, and 8.02 tons per year. (based on 600 pounds/hr process weight rate) (P005 and P006)</p> <p>Particulate emissions shall not exceed 0.67 pounds per hour, and 2.95 tons per year. (based on 135 pounds/hr process weight rate) (P007)</p>
b.	OAC rule 3745-17-07	The emission limitation based on this rule is less stringent than the limit established



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		pursuant to OAC rule 3745-31-05.
c.	OAC rule 3745-17-11	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
d.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	The emission limitation based on this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
e.	OAC rule 3745-21-07(M)(3)(a) and (b) [see b)(2)c.]	Exempt, pursuant to OAC rule 3745-21-07(M)(3)(c)(ii) (OC potential to emit does not exceed 40 pounds per day)
f.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.

(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)d.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)e.

- d. The emissions from the emissions units listed above shall be vented to the baghouse when one or more of the emissions units are in operation.



- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 7 inches of water.
  - (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.



Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (3) The permittee shall collect and record the following information for each and every day of production:
  - a. The production date and identification number of each batch produced;
  - b. The batch size, in gallons;
  - c. The batch density, in pounds per gallon;
  - d. The VOC content of each batch, in weight percent;
  - e. The daily cycle time for the emissions unit, in hours;
  - f. The daily VOC emission rate, in pounds per day, i.e., the summation of the emissions from each batch produced that day; and
  - g. The calculated average hourly VOC emission rate for the daily production of VOC per hour (average).

VOC emissions shall be calculated based upon the methodology specified in sections f)(1)c below.

- (4) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (5) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month period (for the entire facility).



- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
  - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:

Visible PE shall not exceed 5% opacity, as a 6-minute average.



Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance with the VE limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.

b. Emission Limitations:

1.83 lbs/hr PE, and 8.01 tons per year (P005 and P006)

0.67 lbs/hr PE and 2.95 tons per year (P007)

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance with the hourly limitations by testing in accordance with Methods 1 – 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year and dividing by 2000 to convert to tons. Therefore, compliance with the annual limitation will be ensured if compliance with the hourly limitation is maintained.

c. Emission Limitations:

8.0 lbs/hr OC, 40.0 lbs/day, and 7.3 tons per year

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the OC emission limitations based upon the record keeping requirements in sections d)(3) and d)(4).

Daily and hourly emissions shall be calculated in accordance with the following equations:

$$\text{Daily VOC Emissions} = [\text{Summation of } (\text{Size} * \text{Density} * \text{Weight Fraction} * \text{EF} * (1-\text{CF})) \text{ for all batched produced during the day}]$$

Where:

Daily VOC Emissions = VOC emission rate for the day's production, in pounds per day;

Size = batch size, in gallons;

Density = batch density, in pounds per gallon;

Weight Fraction = VOC content of each batch, as a weight fraction;

EF = solvent loss emission factor (AP-42, Section 6.4), 0.015; and

CF = control factor (from Control of VOC Emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1) of 0.40, based on the use of a cover for the tank.

$$\text{Hourly VOC emissions} = \text{Daily VOC emissions} / \text{Time}$$



Where:

Time = total daily production time, in hours.

d. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements of d)(4) and d)(5).

- (2) 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 of the cleanup materials, coatings, and inks.

g) Miscellaneous Requirements

- (1) None.



**7. Emissions Unit Group - Roof-coating mixing vats: P017, P018,**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P017	Roof Coating #2
P018	Roof Coating #3

- a) 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. b) – g).
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07	Visible particulate emissions (PE) shall not exceed 20%, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11	PE shall not exceed 1.24 pounds per hour. (based on 336 pounds/hr maximum process weight rate)
c.	OAC rule 3745-21-07(G)(2) [see b)(2)c.]	Organic compounds (OC) emissions shall not exceed 8.0 pounds per hour, and 40.0 pounds per day.
d.	OAC rule 3745-31-05(D)	Combined annual emissions from this facility (P005 – P009, P011 – P018, P023 – P025) shall not exceed 97.0 tons per year of volatile organic compounds (VOC), as a rolling, 12-month summation.
e.	OAC rule 3745-21-07(M)(a) and (b) [see b)(2)c.]	Exempt, OAC rule 3745-21-07(M)(3)(c)(ii) (OC potential to emit does not exceed 40 pounds per day)



(2) Additional Terms and Conditions

- a. This facility has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.
- b. The permittee shall include all OC in the calculation of VOC emissions. The permittee has requested this condition in order to streamline the record keeping requirements.
- c. On February 18, 2008, OAC rule 3745-21-07 was revised in its entirety; therefore, the 21-07 rule that was in effect prior to this date is no longer part of the State regulations. On April 4, 2008, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to comply with the previous 21-07 rule provisions still exists as part of the federally-approved SIP for Ohio. The following terms and conditions shall become void after U.S. EPA approves the rule revision:

b)(1)c, d)(3)e, and d)(3)g.

The emission limitations and control requirements from the amended 21-07 rule, and the associated operational restrictions and the monitoring, record keeping, and reporting requirements contained in this permit, shall become federally enforceable on the date the U.S. EPA approves the revised OAC rule 3745-21-07 as a revision to the Ohio State Implementation Plan. The following terms shall become federally enforceable after U.S. EPA approves the rule revision:

b)(1)e.

- d. The emissions from the emissions units listed above shall be vented to the baghouse when one or more of the emissions units are in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable range established for the pressure drop across the baghouse is between 0.5 to 7 inches of water.
- (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.



Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- f. a description of the corrective action;
- g. the date corrective action was completed;
- h. the date and time the deviation ended;
- i. the total period of time (in minutes) during which there was a deviation;
- j. the pressure drop readings immediately after the corrective action was implemented; and
- k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (3) The permittee shall collect and record the following information for each and every day of production:
  - a. The production date and identification number of each batch produced;



- b. The batch size, in gallons;
- c. The batch density, in pounds per gallon;
- d. The VOC content of each batch, in weight percent;
- e. The daily cycle time for the emissions unit, in hours;
- f. The daily VOC emission rate, in pounds per day, i.e., the summation of the emissions from each batch produced that day; and
- g. The calculated average hourly VOC emission rate for the daily production of VOC per hour (average).

VOC emissions shall be calculated based upon the methodology specified in sections f)(1)c below.

- (4) For each month, the permittee shall collect and record the monthly VOC emissions for each emissions unit, in tons.
- (5) The permittee shall, on a monthly basis, calculate and record the rolling 12-month VOC emission rates for all emissions units at the facility, in tons.

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. 97.0 tons VOC per rolling, 12-month period [for entire facility].
  - b. the probable cause of each deviation (excursion);
  - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
  - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee



shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

- (3) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
  - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the acceptable range;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in “a” (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in “a” where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in “a” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations:  
  
Visible PE shall not exceed 20% opacity, as a 6-minute average.  
  
Applicable Compliance Methods:  
  
If required, the permittee shall demonstrate compliance with the VE limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.
  - b. Emission Limitations:  
  
1.24 pounds per hour PE  
  
Applicable Compliance Methods:  
  
If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 – 5 of 40 CFR Part 60, Appendix A.
  - c. Emission Limitations:  
  
8.0 pounds per hour OC



40 pounds per day OC

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements in d)(3) and d)(4).

Daily and hourly emissions shall be calculated in accordance with the following equations:

Daily VOC Emissions = [Summation of (Size \* Density \* Weight Fraction \* EF \* (1-CF)) for all batched produced during the day]

Where:

Daily VOC Emissions = VOC emission rate for the day's production, in pounds per day;

Size = batch size, in gallons;

Density = batch density, in pounds per gallon;

Weight Fraction = VOC content of each batch, as a weight fraction;

EF = solvent loss emission factor (AP-42, Section 6.4), 0.015; and

CF = control factor (from Control of VOC Emissions from Ink and Paint Manufacturing Processes, USEPA-450/3-92-013, Section 4.2.1.1) of 0.40, based on the use of a cover for the tank.

Hourly VOC emissions = Daily VOC emissions / Time

Where:

Time = total daily production time, in hours.

d. Emission Limitations:

97.0 tons per year of VOC for entire facility, as a rolling, 12-month summation.

Applicable Compliance Methods:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in d)(4) and d)(5).

(2) 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 of the cleanup materials, coatings, and inks.

g) Miscellaneous Requirements

(1) None.