



6/23/2014

Certified Mail

Matthew Beachy  
 TEB Coatings  
 985 West main St.  
 Sugarcreek, OH 44681

|     |                                    |
|-----|------------------------------------|
| Yes | TOXIC REVIEW                       |
| No  | SYNTHETIC MINOR TO AVOID MAJOR NSR |
| No  | CEMS                               |
| No  | MACT/GACT                          |
| No  | NSPS                               |
| No  | NESHAPS                            |
| No  | NETTING                            |
| Yes | MODELING SUBMITTED                 |
| Yes | SYNTHETIC MINOR TO AVOID TITLE V   |
| Yes | FEDERALLY ENFORCABLE PTIO (FEPTIO) |
| No  | SYNTHETIC MINOR TO AVOID MAJOR GHG |

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
 Facility ID: 0679000332  
 Permit Number: P0116520  
 Permit Type: OAC Chapter 3745-31 Modification  
 County: Tuscarawas

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

**How to appeal this permit**

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
 77 South High Street, 17th Floor  
 Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SEDO



**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
TEB Coatings**

|                |                                  |
|----------------|----------------------------------|
| Facility ID:   | 0679000332                       |
| Permit Number: | P0116520                         |
| Permit Type:   | OAC Chapter 3745-31 Modification |
| Issued:        | 6/23/2014                        |
| Effective:     | 6/23/2014                        |
| Expiration:    | 6/23/2019                        |





**Division of Air Pollution Control**  
**Permit-to-Install and Operate**  
for  
TEB Coatings

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**Final Permit-to-Install and Operate**  
TEB Coatings  
**Permit Number:** P0116520  
**Facility ID:** 0679000332  
**Effective Date:** 6/23/2014

## Authorization

Facility ID: 0679000332  
Application Number(s): A0050375  
Permit Number: P0116520  
Permit Description: Chapter 31 modification FEPTIO for a stain booth and a topcoat booth  
Permit Type: OAC Chapter 3745-31 Modification  
Permit Fee: \$400.00  
Issue Date: 6/23/2014  
Effective Date: 6/23/2014  
Expiration Date: 6/23/2019  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

TEB Coatings  
2761 State Route 93 NW  
Sugar creek, OH 44681

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

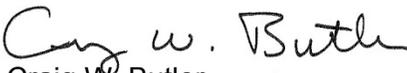
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office  
2195 Front Street  
Logan, OH 43138  
(740)385-8501

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

  
Craig W. Butler  
Director



## **Authorization (continued)**

Permit Number: P0116520

Permit Description: Chapter 31 modification FEPTIO for a stain booth and a topcoat booth

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

**Emissions Unit ID:**

|                                   |                |
|-----------------------------------|----------------|
| Company Equipment ID:             | R001           |
| Superseded Permit Number:         | Stain Booth    |
| General Permit Category and Type: | 06-08401       |
|                                   | Not Applicable |

**Emissions Unit ID:**

|                                   |                      |
|-----------------------------------|----------------------|
| Company Equipment ID:             | R002                 |
| Superseded Permit Number:         | Sealer/Topcoat Booth |
| General Permit Category and Type: | 06-08401             |
|                                   | Not Applicable       |



**Final Permit-to-Install and Operate**  
TEB Coatings  
**Permit Number:** P0116520  
**Facility ID:** 0679000332  
**Effective Date:** 6/23/2014

## **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 of this permit 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 [DO/LAA] 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 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.



**Final Permit-to-Install and Operate**  
TEB Coatings  
**Permit Number:** P0116520  
**Facility ID:** 0679000332  
**Effective Date:** 6/23/2014

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



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) 2.a), 3.a)-c), 4.a)-c), 5.a), and 6.a)

2. Applicable Emissions Limitations and/or Control Requirements

|     | Applicable Rules/Requirements   | Applicable Emissions Limitations/Control Measures   |
|-----|---|---|
| (1) | OAC rule 3745-31-05(D)<br>(Synthetic minor restriction to avoid Title V requirements) | <p>VOC emissions from emissions units R001 and R002 shall be less than 24.9 tons per rolling, 12-month period.</p> <p>Emissions of any single hazardous air pollutant (HAP) from the facility shall not exceed 9.0 tons based on a rolling, 12-month summation.</p> <p>Total HAP emissions from the facility shall not exceed 24.0 tons based on a rolling, 12-month summation.</p> <p>See 3.a)-c) below.</p> |

3. Operational Restrictions

a) The weight of organic material in solvent evaporated (solvent usage, minus the number of gallons recovered for disposal) plus VOC emissions from all other sources, which is equivalent to total VOC emissions, shall be less than 24.9 tons during any rolling, 12-month period.

These emissions units have 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 coating usage upon issuance of this permit.

b) The content of any single hazardous air pollutant (HAP)<sup>1</sup> in any coating or cleanup material shall not exceed 36 percent, by weight, of the VOC portion of the coating or cleanup material, as applied.

c) The content of the combined HAPs in any coating or cleanup material shall not exceed 96 percent, by weight, of the VOC portion of the coating or cleanup material, as applied.



<sup>1</sup> A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office contact. Material Safety Data Sheets or Environmental Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials.

4. Monitoring and/or Recordkeeping Requirements

- a) The permittee shall collect and record the following information for each month:
  - (1) the company identification for each coating and cleanup material employed;
  - (2) the number of gallons of each coating and cleanup material employed minus the number of gallons of each coating and cleanup material recovered for disposal;
  - (3) the VOC content of each coating and cleanup material, in pounds per gallon; and
  - (4) the total VOC emissions rate for all the coatings and cleanup material, in tons per month; and
  - (5) the rolling, 12-month summation of the VOC emissions.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

- b) The permittee shall maintain records of the actual single HAP content and the combined HAPs content for each coating and cleanup material, in percent by weight of the VOC portion of the coating or cleanup material, as applied, (i.e., the pounds of HAP per gallon divided by the pounds of VOC per gallon).
- c) The permittee shall maintain records of the HAPs content of each coating, as applied, in pounds per gallon and the actual single HAP content and the combined HAPs content for each coating and cleanup material, in percent by weight of the VOC portion of the coating or cleanup material, as applied, (i.e., the pounds of HAP per gallon divided by the pounds of VOC per gallon).

5. Reporting Requirements

- a) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - (1) all deviations (excursions) of the following emission limitations and operational restrictions 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:
    - a. 24.9 tons VOC during any rolling, 12 month period for the facility;
    - b. Any single HAP content in any coating above 36 percent, by weight, of the VOC portion of the coating or cleanup material, as applied; and
    - c. Combined HAPs in any coating or cleanup material shall not exceed 96 percent, by weight, of the VOC portion of the coating or cleanup material, as applied;



- (2) the probable cause of each deviation (excursion);
- (3) any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- (4) 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).

## 6. Testing Requirements

- a) Compliance with the allowable emission limitations in 2.a) of these terms and conditions shall be determined in accordance with the following methods:

- (1) Emission Limitation:

VOC emissions from all sources at the facility (R001, R002 and miscellaneous equipment) shall be less than 24.9 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the value recorded in 4.a)(5) based on the record keeping specified in 4.a).

- (2) Emissions Limitation:

Emissions of any single HAP from the facility shall not exceed 9.0 tons based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in 4.b).

- (3) Emissions Limitation:

Total HAP emissions from the facility shall not exceed 24.0 tons based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the recordkeeping in 4.c).

- (4) USEPA Method 24 or formulation data shall be used to determine the VOC contents of the coatings and cleanup materials.



**Final Permit-to-Install and Operate**  
TEB Coatings  
**Permit Number:** P0116520  
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**Effective Date:** 6/23/2014

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



**1. R001, Stain Booth**

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

JB I Spray Booth, Model # IDB-108; stack with exhaust fan and air-assisted airless spray pump/gun installed on 5/2/08; Chapter 31 modification after 10/1/13 to allow the use of stains with higher solids and HAP contents than originally permitted; supersedes PTI 06-08401 issued 3/24/09

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. b)(1)f., b)(2)c., c)(3), d(8)-(10), e)(3) and f)(1)c.

(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)(1)d.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(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 are identified below. 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. | ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)                                      | Volatile organic compound (VOC) emissions shall not exceed 2.08 tons per month averaged over a twelve-month rolling period.                                    |
| b. | OAC rule 3745-31-05(A)(3), as effective 11/30/01                                  | Install dry particulate filters that shall have at least 98.66% design removal efficiency for particulate at maximum rated capacity.<br><br>See b)(2)a. below. |
| c. | OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06                               | See b)(2)b. below.   |
| d. | OAC rule 3745-31-05(D)<br>Synthetic Minor to Avoid Title V and MACT Applicability | See Section B.2.a)(1).   |
| e. | OAC rule 3745-17-11(C)  | See c)(1) and (2) below.   |
| f. | ORC 3704.03(F)(4)(c) and OAC  | See c)(3) and d)(8) – (10) below.  |



|  | Applicable Rules/Requirements       | Applicable Emissions Limitations/Control Measures |
|--|-------------------------------------|---|
|  | rules 3745-114-01 and 3745-31-05(E) |   |

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally–approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions from this air contaminant source since the uncontrolled potential to emit for particulate is less than 10 tons/yr.

c. In order to demonstrate compliance with the “Toxic Air Contaminant Statute”, the Director has established, per ORC 3704.03(F)(4)(c), a limit for toluene, which shall not exceed 36.21 pounds per day. This daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application (12.75 hours per day), by the emission rate modeled to determine the ground level concentration.

c) Operational Restrictions

(1) The permittee shall install, operate, and maintain a dry particulate filter system for the surface coating operation in accordance with the manufacturer’s recommendations, instructions, and/or operating manual(s) with any modifications deemed necessary by the permittee. The dry particulate filter shall be employed during all periods of coating application to control particulate emissions.

(2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.



- (3) The permittee has requested to voluntarily limit this emissions unit's operating hours to no more than 76.5 hours per week to comply with the "Toxic Air Contaminant Statute", Ohio Revised Code (ORC) §3704.03(F).

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for this emissions unit:

- a. the name, identification number and type of each coating applied and each cleanup material employed;
- b. the volume, in gallons, of each coating applied; and
- c. the volume, in gallons, of each cleanup material employed
- d. the VOC content, in pounds per gallon, of each coating, as applied (including any additives or thinners, if applicable) and each cleanup material;
- e. the VOC emissions from coating ( $VOC_{CO}$ ), in pounds of VOC per month, calculated as follows:

$$VOC_{CO} \text{ (pounds/month)} = \sum_{i=1}^n (G \times C_{CO})$$

Where:

G = volume of each coating applied, in gallons, as recorded in d)(1)b. above;

$C_{CO}$  = VOC content of each coating, as applied, in pounds per gallon, as recorded in d)(1)d. above; and

n = total number of coatings employed during the month;

- f. the VOC emissions from cleanup materials ( $VOC_{CL}$ ), in pounds of VOC per month, calculated as follows:

$$VOC_{CL} \text{ (pounds/month)} = \sum_{i=1}^n G \times C_{CL}$$

Where:

G = volume of each cleanup material used, in gallons, as recorded in d)(1)c. above;

$C_{CL}$  = VOC content of each cleanup material, in pounds per gallon, as recorded in d)(1)d. above; and

n = total number of cleanup materials employed during the month;

- g. the total VOC emissions from all coatings and cleanup materials employed, in pounds of VOC per month, calculated as follows:



Total VOC (pounds/month) =  $VOC_{CO}$  (as recorded in d)(1)e.) +  $VOC_{CL}$  (as recorded in d)(1)f.); and

- h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month averaged over a twelve-month rolling period, calculated as follows:

VOC (tons per month averaged over a twelve-month rolling period)

$$= \sum_{i=1}^n \text{VOC emissions, in pounds per month (from d)(1)g.)} \times 1 \text{ ton}/2,000 \text{ pounds} \times 1 \text{ year}/12 \text{ months}$$

Where:

n = total number of months that coating was applied and cleanup materials were employed.

- (2) The permittee shall maintain weekly records of the total number of hours this emissions unit was in operation.
- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (4) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (5) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (6) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
  - a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and
  - d. the name of person who performed the inspection.



These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (7) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit was in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- (8) The federally enforceable permit to install and operate (FEPTIO) application for emissions units R001 and R002 was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
  - a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
    - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
    - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
  - b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
  - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "12.75" hours per day and "6" days per week, from that of 8 hours per day and 5 days per week. The resulting



calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/12.75 \times 5/6 = 4 \text{ TLV (ug/m}^3\text{)}/(12.75 \times 6) = \text{MAGLC}$$

- d. The following summarizes the results of dispersion modeling for the “worst case” toxic contaminant:

Toxic Contaminant: Toluene (xylene, Stoddard solvent)

TLV (mg/m<sup>3</sup>): 75.37(toluene)

Maximum Hourly Emission Rate (lbs/hr): 2.84(toluene)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 3,785.87

Adjusted MAGLC (ug/m<sup>3</sup>): 3,940.50 (adjusted for 76.5 hours per week)

The permittee, having demonstrated that emissions of toluene, xylene and Stoddard solvent from emissions units R001 and R002 is estimated to be equal or greater than eighty percent, but less than 100 per cent of the maximum acceptable ground level concentration (MAGLC), shall not operate the emissions units at a rate that would exceed the daily emissions rate, process weight rate, and/or restricted hours of operations, as allowed in this permit; and any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F).

- (9) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
  - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Toxic Air Contaminant Statute”, ORC 3704.03(F), will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the



definition of a “modification”, the permittee shall apply for and obtain a final FEPTIO prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

(10) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”:

- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
- b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

e) Reporting Requirements

(1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.



- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted 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 include in the annual Permit Evaluation Report (PER) any exceedance of the daily limitation on toxic air emissions or any deviation from a restriction on the process or hours of operation, as established by the Director, in order to maintain any toxic air contaminant below its MAGLC. The permittee shall also include in the PER any changes made, during the calendar year, to a parameter or value entered into the dispersion model that was used to maintain compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.
- f) Testing Requirements
- (1) Compliance with the emissions limitations and/or control requirements specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:
    - a. Emissions Limitation:

VOC emissions shall not exceed 2.08 tons per month averaged over a twelve-month rolling period.

Applicable Compliance Method:

Compliance with this emissions limitation shall be demonstrated by the recordkeeping in d)(1)f.
    - b. Design Efficiency:

Install dry particulate filters that shall have at least 98.66% design removal efficiency for particulate at maximum rated capacity.

Applicable Compliance Method:

Compliance is demonstrated by the manufacturer's design control efficiency of 98.66%.
    - c. Emissions Limitation:

In order to demonstrate compliance with the "Toxic Air Contaminant Statute", the Director has established, per ORC 3704.03(F)(4)(c), a limit for toluene, which shall not exceed 36.21 pounds per day. This daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application (12.75 hours per day), by the emission rate modeled to determine the ground level concentration.



**Final Permit-to-Install and Operate**

TEB Coatings

**Permit Number:** P0116520

**Facility ID:** 0679000332

**Effective Date:** 6/23/2014

Applicable Compliance Method:

The daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application, by the emission rate modeled (to determine the ground level concentration) as follows:

$$[(2.5 \text{ gal/hr stain})(0.031 \text{ lb/gal})] + [(3 \text{ gal/hr sealer/topcoat})(0.92 \text{ lb/gal})] = 2.84 \text{ lb/hr}$$

$$2.84 \text{ lbs/hr} \times 12.75 \text{ hrs/day} = 36.21 \text{ lbs/day}$$

g) Miscellaneous Requirements

(1) None.



**2. R002, Sealer/Topcoat Booth**

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

Binks Custom Spray Booth equipped with a dry filtration system, stack with exhaust fan and air-assisted airless spray pump/gun installed on 5/2/08; Chapter 31 modification after 10/1/13 to allow the use of sealer and topcoat with higher solids and HAP contents than originally permitted; supersedes PTI 06-08401 issued 3/24/09

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. b)(1)f., b)(2)c., c)(3), d)(8)-(10), e)(3) and f)(1)c.

(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)(1)d.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(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 are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in

|    | Applicable Rules/Requirements   | Applicable Emissions Limitations/Control Measures  |
|----|---|--|
| a. | ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)                                      | Volatile organic compound (VOC) emissions shall not exceed 2.08 tons per month averaged over a twelve-month rolling period.                                    |
| b. | OAC rule 3745-31-05(A)(3), as effective 11/30/01                                  | Install dry particulate filters that shall have at least 98.66% design removal efficiency for particulate at maximum rated capacity.<br><br>See b)(2)a. below. |
| c. | OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06                               | See b)(2)b. below.   |
| d. | OAC rule 3745-31-05(D)<br>Synthetic Minor to Avoid Title V and MACT Applicability | See Section B.2.a)(1).   |
| e. | OAC rule 3745-17-11(C)  | See c)(1) and (2) below.   |
| f. | ORC 3704.03(F)(4)(c) and OAC rules 3745-114-01 and 3745-31-                       | See c)(3) and d)(8) – (10) below.  |



|  | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|--|-------------------------------|---|
|  | 05(E)                         |   |

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulation for NAAQS pollutant emissions less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio’s State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revision to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally–approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the SIP.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions from this air contaminant source since the uncontrolled potential to emit for particulate is less than 10 tons/yr.

c. In order to demonstrate compliance with the “Toxic Air Contaminant Statute”, the Director has established, per ORC 3704.03(F)(4)(c), a limit for toluene, which shall not exceed 36.21 pounds per day. This daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application (12.75 hours per day), by the emission rate modeled to determine the ground level concentration.

c) Operational Restrictions

(1) The permittee shall install, operate, and maintain a dry particulate filter system for the surface coating operation in accordance with the manufacturer’s recommendations, instructions, and/or operating manual(s) with any modifications deemed necessary by the permittee. The dry particulate filter shall be employed during all periods of coating application to control particulate emissions.

(2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.



- (3) The permittee has requested to voluntarily limit this emissions unit's operating hours to no more than 76.5 hours per week to comply with the "Toxic Air Contaminant Statute", Ohio Revised Code (ORC) §3704.03(F).

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for this emissions unit:

- a. the name, identification number and type of each coating applied and each cleanup material employed;
- b. the volume, in gallons, of each coating applied; and
- c. the volume, in gallons, of each cleanup material employed
- d. the VOC content, in pounds per gallon, of each coating, as applied (including any additives or thinners, if applicable) and each cleanup material;
- e. the VOC emissions from coating ( $VOC_{CO}$ ), in pounds of VOC per month, calculated as follows:

$$VOC_{CO} \text{ (pounds/month)} = \sum_{i=1}^n (G \times C_{CO})$$

Where:

G = volume of each coating applied, in gallons, as recorded in d)(1)b. above;

$C_{CO}$  = VOC content of each coating, as applied, in pounds per gallon, as recorded in d)(1)d. above; and

n = total number of coatings employed during the month;

- f. the VOC emissions from cleanup materials ( $VOC_{CL}$ ), in pounds of VOC per month, calculated as follows:

$$VOC_{CL} \text{ (pounds/month)} = \sum_{i=1}^n (G \times C_{CL})$$

Where:

G = volume of each cleanup material used, in gallons, as recorded in d)(1)c. above;

$C_{CL}$  = VOC content of each cleanup material, in pounds per gallon, as recorded in d)(1)d. above; and

n = total number of cleanup materials employed during the month;

- g. the total VOC emissions from all coatings and cleanup materials employed, in pounds of VOC per month, calculated as follows:



Total VOC (pounds/month) =  $VOC_{CO}$  (as recorded in d)(1)e.) +  $VOC_{CL}$  (as recorded in d)(1)f.); and

- h. the total VOC emissions from all coatings and cleanup materials employed, in tons per month averaged over a twelve-month rolling period, calculated as follows:

VOC (tons per month averaged over a twelve-month rolling period)

$$= \sum_{i=1}^n \text{VOC emissions, in pounds per month (from d)(1)g.)} \times 1 \text{ ton}/2,000 \text{ pounds} \times 1 \text{ year}/12 \text{ months}$$

Where:

n = total number of months that coating was applied and cleanup materials were employed.

- (2) The permittee shall maintain weekly records of the total number of hours this emissions unit was in operation.
- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (4) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (5) In addition to the recommended periodic inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (6) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
  - a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and
  - d. the name of person who performed the inspection.



These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (7) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit was in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- (8) The federally enforceable permit to install and operate (FEPTIO) application for emissions units R001 and R002 was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
  - a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
    - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
    - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
  - b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
  - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "12.75" hours per day and "6" days per week, from that of 8 hours per day and 5 days per week. The resulting



calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/12.75 \times 5/6 = 4 \text{ TLV (ug/m}^3\text{)}/(12.75 \times 6) = \text{MAGLC}$$

- d. The following summarizes the results of dispersion modeling for the “worst case” toxic contaminant:

Toxic Contaminant: Toluene (xylene, Stoddard solvent)

TLV (mg/m<sup>3</sup>): 75.37(toluene)

Maximum Hourly Emission Rate (lbs/hr): 2.84(toluene)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m<sup>3</sup>): 3,785.87

Adjusted MAGLC (ug/m<sup>3</sup>): 3,940.50 (adjusted for 76.5 hours per week)

The permittee, having demonstrated that emissions of toluene, xylene and Stoddard solvent from emissions units R001 and R002 is estimated to be equal or greater than eighty percent, but less than 100 per cent of the maximum acceptable ground level concentration (MAGLC), shall not operate the emissions units at a rate that would exceed the daily emissions rate, process weight rate, and/or restricted hours of operations, as allowed in this permit; and any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F).

- (9) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
  - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
  - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Toxic Air Contaminant Statute”, ORC 3704.03(F), will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the



definition of a “modification”, the permittee shall apply for and obtain a final FEPTIO prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

(10) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”:

- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
- b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
- d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

e) Reporting Requirements

(1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.



- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted 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 include in the annual Permit Evaluation Report (PER) any exceedance of the daily limitation on toxic air emissions or any deviation from a restriction on the process or hours of operation, as established by the Director, in order to maintain any toxic air contaminant below its MAGLC. The permittee shall also include in the PER any changes made, during the calendar year, to a parameter or value entered into the dispersion model that was used to maintain compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
    - a. Emissions Limitation:

VOC emissions shall not exceed 2.08 tons per month averaged over a twelve-month rolling period.

Applicable Compliance Method:

Compliance with this emissions limitation shall be demonstrated by the recordkeeping in d)(1)f.
    - b. Design Efficiency:

Install dry particulate filters that shall have at least 98.66% design removal efficiency for particulate at maximum rated capacity.

Applicable Compliance Method:

Compliance is demonstrated by the manufacturer's design control efficiency of 98.66%.
    - c. Emissions Limitation:

In order to demonstrate compliance with the "Toxic Air Contaminant Statute", the Director has established, per ORC 3704.03(F)(4)(c), a limit for toluene, which shall not exceed 36.21 pounds per day. This daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application (12.75 hours per day), by the emission rate modeled to determine the ground level concentration.



**Final Permit-to-Install and Operate**

TEB Coatings

**Permit Number:** P0116520

**Facility ID:** 0679000332

**Effective Date:** 6/23/2014

Applicable Compliance Method:

The daily allowable emissions rate was calculated by multiplying the approved daily operating schedule submitted in the permit application, by the emission rate modeled (to determine the ground level concentration) as follows:

$$[(2.5 \text{ gal/hr stain})(0.031 \text{ lb/gal})] + [(3 \text{ gal/hr sealer/topcoat})(0.92 \text{ lb/gal})] = 2.84 \text{ lb/hr}$$

$$2.84 \text{ lbs/hr} \times 12.75 \text{ hrs/day} = 36.21 \text{ lbs/day}$$

g) Miscellaneous Requirements

- (1) None.