



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

6/14/2016

Certified Mail

John Munsch
 Ball Metal Food Container LLC
 9300 W 108TH CIRCLE
 Broomfield, CO 80021

| | |
|-----|------------------------------------|
| No | TOXIC REVIEW |
| No | SYNTHETIC MINOR TO AVOID MAJOR NSR |
| No | CEMS |
| No | MACT/GACT |
| No | NSPS |
| No | NESHAPS |
| No | NETTING |
| No | 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: 0125041920
 Permit Number: P0120634
 Permit Type: Administrative Modification
 County: Franklin

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**
- **What should you do if you notice a spill or environmental emergency?**

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

How to give us feedback on your permitting experience

Please complete a survey at 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 by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Ohio EPA DAPC, Central District Office at (614)728-3778 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Ohio EPA-CDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Ball Metal Food Container LLC**

| | |
|----------------|-----------------------------|
| Facility ID: | 0125041920 |
| Permit Number: | P0120634 |
| Permit Type: | Administrative Modification |
| Issued: | 6/14/2016 |
| Effective: | 6/14/2016 |
| Expiration: | 8/31/2020 |



Division of Air Pollution Control
Permit-to-Install and Operate
for
Ball Metal Food Container LLC

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Final Permit-to-Install and Operate
Ball Metal Food Container LLC
Permit Number: P0120634
Facility ID: 0125041920
Effective Date: 6/14/2016

Authorization

Facility ID: 0125041920
Application Number(s): M0003917, M0004031
Permit Number: P0120634
Permit Description: Administrative modification to lower the VOC limit for the five (5) existing can coating lines (K001-K005) and include individual and combined HAP limits from new sheet metal coating lines K007 and K008.
Permit Type: Administrative Modification
Permit Fee: \$500.00
Issue Date: 6/14/2016
Effective Date: 6/14/2016
Expiration Date: 8/31/2020
Permit Evaluation Report (PER) Annual Date: July 1 - June 30, Due Aug 15

This document constitutes issuance to:

Ball Metal Food Container LLC
2690 Charter Street
Columbus, OH 43228

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

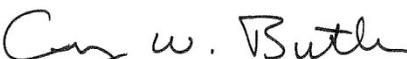
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

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



Final Permit-to-Install and Operate
Ball Metal Food Container LLC
Permit Number: P0120634
Facility ID: 0125041920
Effective Date: 6/14/2016

Authorization (continued)

Permit Number: P0120634

Permit Description: Administrative modification to lower the VOC limit for the five (5) existing can coating lines (K001-K005) and include individual and combined HAP limits from new sheet metal coating lines K007 and K008.

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

Group Name: Can Coating Lines

| | |
|-----------------------------------|----------------|
| Emissions Unit ID: | K001 |
| Company Equipment ID: | Can Line 1 |
| Superseded Permit Number: | P0118717 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | K002 |
| Company Equipment ID: | Can Line 2 |
| Superseded Permit Number: | P0118717 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | K003 |
| Company Equipment ID: | Can Line 3 |
| Superseded Permit Number: | P0118717 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | K004 |
| Company Equipment ID: | Can Line 4 |
| Superseded Permit Number: | P0118717 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | K005 |
| Company Equipment ID: | Can Line 5 |
| Superseded Permit Number: | P0118717 |
| General Permit Category and Type: | Not Applicable |



Final Permit-to-Install and Operate
Ball Metal Food Container LLC
Permit Number: P0120634
Facility ID: 0125041920
Effective Date: 6/14/2016

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
Ball Metal Food Container LLC
Permit Number: P0120634
Facility ID: 0125041920
Effective Date: 6/14/2016

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. through 6.
2. In accordance with OAC rule 3745-31-05(D), to avoid MACT and Title V, the emissions of hazardous air pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units **K001, K002, K003, K004, K005, K007, K008**, all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status, permit exempt, and permit-by-rule emissions units pursuant to OAC rule 3745-31-03, combined, shall not exceed 9.9 tons per rolling, 12-month period for any individual HAP and 24.9 tons per rolling, 12-month period for any combination of HAPs.
3. Operational Restrictions
 - a) None.
4. Monitoring and Recordkeeping Requirements
 - a) The permittee shall maintain monthly records of the following information:
 - (1) the company identification for each coating employed in emissions units **K001, K002, K003, K004, K005, K007, and K008**;
 - (2) the number of gallons of each coating employed in emissions units **K001, K002, K003, K004, K005, K007, and K008**;
 - (3) the individual HAP content and combined HAPs content of each coating material employed in emissions units **K001, K002, K003, K004, K005, K007, and K008**, in pounds per gallon;
 - (4) the total uncontrolled emissions of each individual HAP and of combined HAPs from all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status, permit exempt, and permit-by-rule emissions units pursuant to OAC rule 3745-31-03, in tons, calculated in accordance with B.6.a)(2) below;
 - (5) the facility-wide individual HAP emissions, in tons per month;
 - (6) the facility-wide combined HAPs emissions, in tons per month;

- (7) the rolling, 12-month summation (i.e., the current month plus the previous 11 months) of facility-wide individual HAP emissions, in tons; and
- (8) the rolling, 12-month summation (i.e., the current month plus the previous 11 months) of facility-wide combined HAPs emissions, in tons.

5. Reporting Requirements

- a) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - (1) all deviations (excursions) of the following emissions limitations, operational restrictions, and/or control device operating parameter limitations that restrict the potentials to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, recordkeeping, and/or testing requirements in this permit:
 - a. all exceedances of the rolling, 12-month facility-wide individual HAP emissions limitation; and
 - b. all exceedances of the rolling, 12-month facility-wide combined HAPs emissions limitation.
 - (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).
 - (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 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 (Ohio EPA, Central District Office).

6. Testing Requirements

- a) Emissions Limitation:

In accordance with OAC rule 3745-31-05(D), to avoid MACT and Title V, the emissions of hazardous air pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units **K001, K002, K003, K004, K005, K007, K008**, all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status, permit exempt, and permit-by-rule emissions units pursuant to OAC rule 3745-31-03, combined, shall not exceed 9.9 tons per rolling, 12-month period for any individual HAP and 24.9 tons per rolling, 12-month period for any combination of HAPs.

Applicable Compliance Method:

- (1) For emissions units **K001, K002, K003, K004, K005, K007, and K008**, compliance with these limitations is determined using recordkeeping required by B.4.a) above and using U.S. EPA approved emissions factors or emissions factors otherwise approved by Central District Office.
- (2) For all de minimis emissions units as defined in OAC rule 3745-15-05, and all registration status, permit exempt, and permit-by-rule emissions units pursuant to OAC rule 3745-31-03, the permittee shall calculate HAP emissions consistent with the



Final Permit-to-Install and Operate

Ball Metal Food Container LLC

Permit Number: P0120634

Facility ID: 0125041920

Effective Date: 6/14/2016

information presented in the installation and/or operating permit application using U.S. EPA approved emissions factors or emissions factors otherwise approved by Central District Office.



Final Permit-to-Install and Operate
Ball Metal Food Container LLC
Permit Number: P0120634
Facility ID: 0125041920
Effective Date: 6/14/2016

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group - Can Coating Lines: K001, K002, K003, K004, K005

| EU ID | Operations, Property and/or Equipment Description |
|--------------|--|
| K001 | Can Line 1 - Side seam stripe application |
| K002 | Can Line 2 - Side seam stripe application |
| K003 | Can Line 3 - Side seam stripe application |
| K004 | Can Line 4 - Side seam stripe application |
| K005 | Can Line 5 - Side seam stripe application |

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. d)(10) through d)(12) and e)(5).

(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., c)(3) through c)(6), d)(6), e)(3), f)(1)c., and f)(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. | OAC rule 3745-17-11(C) | See c)(1) and c)(2) below. |
| b. | OAC rule 3745-21-09(D)(2)(d) | Volatile organic compound (VOC) emissions from coatings shall not exceed 5.5 pounds per gallon (lb/gal) of coating, excluding water and exempt solvents as a daily, volume-weighted average. |
| c. | OAC rule 3745-31-05(A)(3) | See b)(2)a. through b)(2)e. below. |
| d. | OAC rule 3745-31-05(D) | VOC emissions from coatings employed in emissions units K001, K002, K003, K004, and K005 combined, shall not exceed 53.14 tons per rolling, 12-month period. VOC emissions from clean-up materials employed in emissions units K001, K002, |

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|--|-------------------------------|--|
| | | <p>K003, K004, and K005 combined, shall not exceed 1.46 tons per rolling, 12-month period.</p> <p>See B.2. through B.6. above, and c)(3) through c)(6) below.</p> |

(2) Additional Terms and Conditions

- a. VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 15.75 tons per rolling, 12-month period from emissions unit **K001**.
- b. VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 19.85 tons per rolling, 12-month period from emissions unit **K002**.
- c. VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 19.85 tons per rolling, 12-month period from emissions unit **K003**.
- d. VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 21.31 tons per rolling, 12-month period from emissions unit **K004**.
- e. VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 21.31 tons per rolling, 12-month period from emissions unit **K005**.

c) Operational Restrictions

- (1) The permittee shall install and operate a dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- (2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.
- (3) The maximum VOC content of all coatings and clean-up materials employed in emissions units **K001, K002, K003, K004, and K005** shall not exceed 5.5 pounds VOC per gallon, as applied.
- (4) The usage of coating materials for these emissions units shall not exceed 19,324 gallons per rolling, 12-month period.
- (5) The usage of clean-up materials for these emissions units shall not exceed 385 gallons per rolling, 12-month period. Calculation of usage of clean-up materials shall be calculated as prescribed in d)(6) below.

d) **Monitoring and/or Recordkeeping Requirements**

- (1) 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 Ohio EPA, Central District Office upon request.
- (2) 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, 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.
- (3) 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.
- (4) 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 the 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 Ohio EPA, Central District Office, upon request.

- (5) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were 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.
- (6) The permittee shall collect and record the following information on a monthly basis for the coating and clean-up materials applied in these emissions units for the purpose of demonstrating compliance with the federally enforceable restriction on VOC emissions:
 - a. the name and identification number of each coating, as applied;
 - b. the name and identification number of each clean-up material, as applied;

- c. the number of gallons of each coating, as applied;
- d. the number of gallons of each clean-up material, as applied;
- e. the mass of VOC per volume (VOC content), of each coating, as applied, in pounds per gallon;
- f. the VOC content of each clean-up material employed, in pounds per gallon;
- g. the calculated, monthly VOC emissions from all coatings, as applied, in tons;
- h. the calculated, monthly VOC emissions from all clean-up materials, as applied, in tons;
- i. the rolling, 12-month coating usage from emissions units **K001, K002, K003, K004, and K005** combined, in gallons;
- j. the rolling, 12-month clean-up material usage from emissions units **K001, K002, K003, K004, and K005** combined, in gallons;
- k. the calculated rolling, 12-month summation of the total VOC emissions from emissions units **K001, K002, K003, K004, and K005** combined, from all coatings, in tons;
- l. the calculated rolling, 12-month summation of the total VOC emissions from emissions units **K001, K002, K003, K004, and K005** combined, from all clean-up materials, in tons; and
- m. if clean-up materials are collected for off-site disposal and/or recovery, the following records shall be maintained if a credit is to be applied to the monthly VOC emissions and clean-up materials usage records:
 - i. the amount of clean-up material recovered during the month* for off-site disposal and/or recovery, in gallons (or pounds, if records of recovered clean-up material is maintained by weight and VOC content in percent by weight);
 - ii. the VOC content of the recovered clean-up material shall be based on the lowest VOC content of any clean-up material collected, in pounds per gallon (or percent by weight); or it may be based upon a laboratory analysis provided by the facility to which the waste solvent is shipped;
 - iii. the date the recovered clean-up material was shipped, the amount shipped (minus the container), and the name and address of the receiving, disposal, and/or recovery facility;
 - iv. the total monthly clean-up material usage, in gallons, i.e. [d)(6)d.] – [d)(6)m.i.]; and
 - v. the total monthly VOC emissions from clean-up operations, in pounds, i.e., [d)(6)h.] – [d)(6)m.i. x d)(6)m.ii.].

*A daily log may be required for recovered waste clean-up solvents, where a record of the monthly total volume or weight of the collected material cannot be accurately maintained. This amount shall be adjusted if the volume or weight shipped is less than the sum of the monthly recovered solvent added to the container.

- (7) The permittee shall collect and record the following information each month for emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, combined, for the purpose of complying with the VOC content limit established under OAC rule 3745-21-09(D)(2)(d) and shall maintain this information at the facility for a period of three years:
- the name and identification number of each coating, as applied;
 - the mass of VOC per volume (VOC content) of each coating, excluding water and exempt solvents, as applied;
 - the volume of each coating, excluding water and exempt solvents, as applied; and
 - the daily, volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in OAC 3745-21-10(B)(9) for $C_{VOC,2}$.
- (8) The permittee shall collect and record the following information each month for emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, individually, for the purpose of complying with the VOC emissions limits established under OAC rule 3745-31-05(A)(3):
- the name and identification number of each coating, thinner, and clean-up material, as applied;
 - the number of gallons of each coating, thinner, and clean-up material, as applied;
 - the VOC content of each coating, thinner, and clean-up material, as applied;
 - the calculated, monthly VOC emissions from all coatings, thinners, and clean-up materials employed in each emissions unit, as applied, in tons;
 - the rolling, 12-month summation of the total VOC emissions from all coatings, thinners, and clean-up materials employed in each emissions unit, as applied, in tons.
- (9) The permittee shall collect and record the following information each month for all materials containing any hazardous air pollutants (HAPs)¹ that are applied in the emissions unit:
- the name and identification number/code of each coating, thinner, additive, clean-up material, and any other material containing any HAP;
 - the name/identification of each individual HAP contained in each material applied (and identified in d)(9)a. above) and the pound(s) of each HAP per gallon of each HAP-containing material applied;

- c. the number of gallons of each coating, thinner, additive, clean-up material, and other material applied during the month;
- d. for each individual HAP, the total uncontrolled emissions from the controlled coating operations for the month, in ton(s), i.e., for each individual HAP, the summation of the products of d)(9)b. times d)(9)c. for all the coatings, thinners, additives, and other materials (not including clean-up materials) applied during the month, where the emissions are captured and introduced to the control system, divided by 2,000 pounds;
- e. for each individual HAP, the total uncontrolled emissions from the clean-up materials employed, in ton(s), i.e., for each individual HAP, the summation of the products of d)(9)b. times d)(9)c. for all the clean-up materials applied during the month, divided by 2,000 pounds;
- f. the total uncontrolled combined HAPs emissions from the controlled operations for all the coatings, thinners, additives, and other materials (not including clean-up materials) applied during the month, in ton(s), i.e., the summation of all the individual HAPs emissions from d)(9)d. above;
- g. the total uncontrolled combined HAPs emissions from all the clean-up materials applied during the month, in ton(s), i.e., the summation of all the individual HAPs emissions from d)(9)e. above;
- h. for each individual HAP, the sum of (i) the calculated, controlled emission rate from all the coatings, thinners, additives, and other materials (not including clean-up materials) employed during the month, in ton(s), i.e., the total uncontrolled individual HAP emission rate calculated in d)(9)d. above, multiplied by 1 minus the overall control efficiency for the control equipment, as determined during the most recent emissions test that demonstrated the emissions unit was in compliance, and (ii) the uncontrolled individual HAP emissions from the clean-up materials employed during the month, as calculated in d)(9)e. above;
- i. for combined HAPs, the calculated total combined HAPs emission rate for all the materials employed in the controlled coating and uncontrolled clean-up operations during the month, i.e., the summation of the total emissions of each of the individual HAP emission rates calculated in d)(9)h. above;
- j. for each individual HAP, the calculated total emissions during the rolling, 12-month period, i.e., the summation of the individual HAP emissions, as recorded in d)(9)h. above, for the present month plus the previous 11 months of operation, in ton(s); and
- k. the calculated total combined HAP emissions during the rolling 12-month period, i.e., the summation of all HAP emissions, as recorded in d)(9)i. above, for the present month plus the previous 11 months of operation, in ton(s).

¹A 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 District Office or local air agency contact.

Material Safety Data Sheets typically include a listing of the solvents contained in the coatings and clean-up materials.

- (10) The application for these emissions units, **K001**, **K002**, **K003**, **K004**, and **K005**, were 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; modeling was performed for each toxic air contaminant emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, ISCST3, or other Ohio EPA approved model. The 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 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 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/was 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., 24 hours per day and 7 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 MAGLC:

$$TLV/10 \times 8/X \times 5/Y = 4 TLV/XY = MAGLC$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at one or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: xylene
TLV (mg/m³): 434
Maximum Hourly Emission Rate (lb/hr): 2.26

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 130.9
MAGLC ($\mu\text{g}/\text{m}^3$): 10,333

The permittee has demonstrated that emissions of xylene from emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, combined, is calculated to be less than eighty percent of the MAGLC; 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).

- (11) 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 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" 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.

- (12) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):
- 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 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 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 notify the Director (the Ohio EPA, Central District Office) in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 45 days after the exceedance occurs.
 - (3) 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, recordkeeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period during which the combined VOC emissions from coatings applied in emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, combined, exceeded 53.14 tons;

- ii. each rolling, 12-month period during which the combined VOC emissions from clean-up materials employed in emissions units **K001, K002, K003, K004, and K005**, combined, exceeded 1.46 tons;
 - iii. each month during which the VOC content of any coatings and/or clean-up materials employed in emissions units **K001, K002, K003, K004, and/or K005** exceeded the limit specified in c)(3) above;
 - iv. each rolling, 12-month period during which the usage of coating materials employed in emissions units **K001, K002, K003, K004, and K005**, combined, exceeded 19,324 gallons; and
 - v. each rolling, 12-month period during which the usage of clean-up materials employed in emissions units **K001, K002, K003, K004, and K005**, combined, exceeded 385 gallons.
- 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 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 (Central District Office).

- (4) 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 PER shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
 - (5) The permittee shall include any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the annual PER. 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 content of coatings employed in this emissions unit shall not exceed 5.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:

Compliance with the VOC content limitation shall be determined through the records required in d)(7) above. Formulation data from each material's manufacturer or U.S. EPA Method 24 shall be used to determine the VOC content of the materials.

b. Emissions Limitations:

VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 15.75 tons per rolling 12-month period from emissions unit **K001**.

VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 19.85 tons per rolling 12-month period from emissions unit **K002**.

VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 19.85 tons per rolling 12-month period from emissions unit **K003**.

VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 21.31 tons per rolling 12-month period from emissions unit **K004**.

VOC emissions from all coating, thinners, and clean-up materials employed shall not exceed 21.31 tons per rolling 12-month period from emissions unit **K005**.

Applicable Compliance Method:

Compliance with the VOC emissions limitations shall be determined through the records required in d)(8) above.

c. Emissions Limitation:

VOC emissions from coatings applied in emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, combined, shall not exceed 53.14 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with this emissions limitation shall be demonstrated through the monitoring and recordkeeping requirements in d)(6) above.

d. Emissions Limitation:

VOC emissions from clean-up materials applied in emissions units **K001**, **K002**, **K003**, **K004**, and **K005**, combined, shall not exceed 1.46 tons per rolling, 12-month period.



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Effective Date: 6/14/2016

Applicable Compliance Method:

Compliance with this emissions limitation shall be demonstrated through the monitoring and recordkeeping requirements in d)(6) above.

- g) Miscellaneous Requirements
 - (1) None.