



State of Ohio Environmental Protection Agency

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Columbus, Ohio 43215

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Columbus, OH 43216-1049

3/24/2009

TIM MCCARRICK  
Trans-Acc, Inc.  
11167 DEERFIELD RD.  
CINCINNATI, OH 45242

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 1409040883  
Permit Number: P0104136  
Permit Type: Renewal  
County: Butler

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

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

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

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

If you have any questions regarding this permit, please contact the Hamilton County Dept. of Environmental Services. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc).

Sincerely,

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

Cc: HCDOES

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





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

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
Trans-Acc, Inc.**

Facility ID: 1409040883  
Permit Number: P0104136  
Permit Type: Renewal  
Issued: 3/24/2009  
Effective: 3/24/2009  
Expiration: 3/24/2014





State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Air Pollution Permit-to-Install and Operate**  
for  
Trans-Acc, Inc.

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Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0104136  
**Facility ID:** 1409040883  
**Effective Date:** 3/24/2009

# Authorization

Facility ID: 1409040883  
Application Number(s): M0000306  
Permit Number: P0104136  
Permit Description: Administrative Modification to Reduce the Federally Enforceable Annual VOC Emissions Rate for the Coating Line (K004), Supercedes PTI 14-05946, issued 9/18/2007  
Permit Type: Renewal  
Permit Fee: \$100.00  
Issue Date: 3/24/2009  
Effective Date: 3/24/2009  
Expiration Date: 3/24/2014  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Trans-Acc, Inc.  
1005 South 9th Street  
Hamilton, OH 45011

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

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

Hamilton County Dept. of Environmental Services  
250 William Howard Taft Pkwy.  
Cincinnati, OH 45219-2660  
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



State of Ohio Environmental Protection Agency  
 Division of Air Pollution Control

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

**Permit Number:** P0104136

**Facility ID:** 1409040883

**Effective Date:** 3/24/2009

## Authorization (continued)

Permit Number: P0104136

Permit Description: Administrative Modification to Reduce the Federally Enforceable Annual VOC Emissions Rate for the Coating Line (K004), Supercedes PTI 14-05946, issued 9/18/2007

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

<b>Emissions Unit ID:</b>	<b>K004</b>
Company Equipment ID:	K004 - Coating Line
Superseded Permit Number:	14-05946
General Permit Category and Type:	Not Applicable



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

**Permit Number:** P0104136

**Facility ID:** 1409040883

**Effective Date:** 3/24/2009

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

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

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

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

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

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



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Division of Air Pollution Control

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## **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., 3., 4., and 5.
  
2. The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from the Trans-Acc Hamilton Plant (Premise 1409040883) and the Trans-Acc Fairfield Plant (Premise 1409031041) emissions units K004 (Miscellaneous Metal Parts Coating Line – Hamilton Plant), P002 (Abrasive Blasting Enclosure – Hamilton Plant), K001 (Miscellaneous Metal Parts Coating Line No. 1 – Fairfield Plant), K002 (Miscellaneous Metal Parts Coating Line No. 2 – Fairfield Plant), other de minimus air contaminant sources, as defined in OAC rule 3745-15-05, and other air contaminant sources exempt from the requirement to obtain a permit-to-install pursuant to OAC rule 3745-31-03 installed subsequent to the issuance of this permit, combined, shall not exceed 9.9 tons per year (TPY)\* for any single HAP and 24.9 TPY\* for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

\*This assumes that the amount of HAPs used is equivalent to the amount of HAPs that will evaporate and be emitted.

The permittee has existing records of existing sources to demonstrate compliance with this limitation upon issuance of this permit.
  
3. The permittee shall collect and record the following information each month for the emissions units identified in 2. above:
  - a) The name and identification number of each coating, employed;
  - b) The individual HAP\* content for each HAP of each coating, in pounds of individual HAP per gallon of coating, as applied;
  - c) The total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from b)];
  - d) The number of gallons of each coating employed;
  - e) The name and identification number of each cleanup/cleaning solvent employed;
  - f) The individual HAP content for each HAP of each cleanup/cleaning solvent, in pounds of individual HAP per gallon of cleanup/cleaning solvent, as applied;
  - g) The total combined HAP content of each cleanup/cleaning solvent, in pounds of combined HAPs per gallon of cleanup/cleaning solvent, as applied [sum all the individual HAP contents from f)];



- h) The number of gallons of each cleanup/cleaning solvent employed;
- i) The total individual HAP emissions\*\* for each HAP from all coatings and cleanup/cleaning solvents employed, in pounds or tons per month [for each HAP the sum of b) times d) for each coating plus the sum of f) times h) for each cleanup/cleaning solvent];
- j) The total combined HAP emissions\*\* from all coatings and cleanup/cleaning solvents employed, in pounds or tons per month [the sum of c) times d) for each coating plus the sum of g) times h) for each cleanup/cleaning solvent];
- k) The updated rolling, 12-month summation of emissions for each individual HAP\*\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and
- l) The updated rolling, 12-month summation of emissions for total combined HAPs\*\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.

\* A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting Hamilton County Department of Environmental Services. This information does not have to be kept on an individual emissions unit basis.

\*\*This assumes the amount of HAPs used is equivalent to the amount of HAPs that will evaporate and be emitted.

- 4. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emission limitations specified in 2. above. If no exceedances occurred, the permittee shall state so in the report. The reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).
- 5. Compliance with the emission limitations in 2. of these terms and conditions shall be determined in accordance with the following method(s) identified below:

- a) Emission Limitations:

Actual emissions of Hazardous Air Pollutants (HAPs) shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs, as a 12-month rolling summation, as specified in 2. above.

Applicable Compliance Method:

Compliance with the 12-month rolling HAP limitations shall be demonstrated by the record keeping identified in 3. above.



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



1. **K004, Coating Line**

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

Miscellaneous Metal Parts Coating Line, consisting of three duplex spray coating application stations, a powder coating application station, and drying ovens

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)(9) through d)(12).

(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)c., b)(2)c., c)(1), d)(2), e)(2), and f)(1)b.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)	<p>Volatile Organic Compound (VOC) emissions shall not exceed 168 pounds per hour, excluding cleanup and cleaning solvent.</p> <p>See b)(2)b.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(b), OAC rule 3745-21-09(U)(1)(c), OAC rule 3745-21-09(U)(1)(d), OAC rule 3745-21-09(U)(1)(i), and OAC rule 3745-31-05(D).</p>
c.	OAC rule 3745-31-05(D)	See b)(2)c., c)(1), and Section B.2.
	Synthetic Minor to Avoid Title V and Non-Attainment New Source Review	
d.	OAC rule 3745-21-09(U)(1)(b)	See b)(2)d.
e.	OAC rule 3745-21-09(U)(1)(c)	See b)(2)e.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-21-09(U)(1)(d)	See b)(2)f.
g.	OAC rule 3745-21-09(U)(1)(i)	See b)(2)g.
h.	OAC rule 3745-17-07(A)(1)	See b)(2)h.
i.	OAC rule 3745-17-11(C)	See b)(2)i., c)(2), and c)(3).
j.	OAC rule 3745-15-07(A)	See b)(2)j. and d)(3)

(2) Additional Terms and Conditions

- a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate (PE), nitrogen oxide (NOx), and carbon monoxide (CO) emissions from this air contaminant source since the potential to emit for PE, NOx, and CO, individually, shall not exceed 9.9 tons per year.
- b. The VOC emission limitation specified in b)(1)b. is equal to the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with this hourly emission limitation.
- c. The VOC emissions from emissions unit K004 (Miscellaneous Metal Parts Coating Line), including cleanup and cleaning solvent emissions, shall not exceed 79.42 tons per year (TPY), based upon a rolling, 12-month summation.  
  
The permittee has existing records to demonstrate compliance with this emission limitation upon permit issuance.
- d. The VOC content of zinc rich primer coatings employed in this emissions unit shall not exceed a daily volume-weighted average of 4.0 lbs per gallon, as applied, excluding water and exempt solvents.
- e. The VOC content of extreme performance coatings employed in this emissions unit shall not exceed a daily volume-weighted average of 3.5 lbs per gallon, as applied, excluding water and exempt solvents.
- f. The VOC content of coatings dried at temperatures not exceeding 200 degrees Fahrenheit employed in this emissions unit shall not exceed a daily volume-weighted average of 3.5 lbs per gallon, as applied, excluding water and exempt solvents.
- g. The VOC content of coatings employed in this emissions unit, that are not specified under b)(2)d., b)(2)e., and b)(2)f. above, shall not exceed a daily volume-weighted average of 3.0 lbs per gallon, as applied, excluding water and exempt solvents.
- h. Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
- i. The permittee shall operate the dry particulate filters whenever this emissions unit is in operation.



- j. The particulate emissions from this emissions unit shall not cause a public nuisance, as defined in OAC rule 3745-15-07.
  - k. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the VOC content and emission limitations.
- c) Operational Restrictions
- (1) The total VOC input from coatings and cleanup/cleaning solvents employed in emissions unit K004 (Miscellaneous Metal Parts Coating Line) shall not exceed 79.42 tons per year (TPY). Compliance with the above limitation shall be based upon a rolling, 12 month-summation of the VOC input. The VOC input shall be determined by multiplying the number of gallons of each coating and cleanup/cleaning solvent employed per month by the VOC content of each coating and cleanup/cleaning solvent, in pounds per gallon. The VOC input of coatings and cleanup/cleaning solvents shall be assumed to be 100 percent of the VOC content of the coatings and cleanup/cleaning solvents employed and, as such, is equivalent to the VOC emission rate.
  - (2) The permittee shall operate and maintain the dry particulate filter system for the surface coating operations 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.
  - (3) 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.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall collect and record the following information each day for this emissions unit:
    - a. the name, identification number, and type (zinc rich, extreme performance, dried <200 degrees F, other) of each coating, as applied;
    - b. the VOC content (excluding water and exempt solvents) of each coating, as applied;
    - c. the number of gallons (excluding water and exempt solvents) of each coating, as applied;
    - d. the daily VOC emissions from all the coatings employed, in pounds, [i.e., the sum of d)(1)b. times d)(1)c. for each coating employed]; and
    - e. the daily volume-weighted average VOC content of all coatings used to show compliance with each of the following terms: b)(2)d. thru b)(2)g., individually, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for  $C_{VOC,2}$ .



- (2) The permittee shall collect and record the following information each month for this emissions unit:
  - a. the name and identification number of each coating and cleanup/cleaning solvent employed;
  - b. the VOC content for each coating, in pounds of VOC per gallon of coating, excluding water and exempt solvents;
  - c. the VOC content for each cleanup/cleaning solvent, in pounds of VOC per gallon of cleaning solvent;
  - d. the number of gallons of each coating employed, excluding water and exempt solvents;
  - e. the number of gallons of each cleanup/cleaning solvent employed;
  - f. the total VOC input/emissions in pounds or tons [summation of d)(2)b. times d)(2)d. for all coatings, plus d)(2)c. times d)(2)e. for all cleanup/cleaning solvents and divided by 2,000 pounds per ton if the units are in tons]; and
  - g. the updated rolling, 12-month summation of the total VOC input/emissions, in tons. This shall include the information for the current month and the preceding eleven calendar months.
- (3) The permittee shall develop, implement, and maintain a preventive maintenance and malfunction plan to minimize particulate emissions, during operation of this emissions unit, in such a manner as to prevent the emissions unit from causing a public nuisance.

The preventive maintenance and malfunction plan and related records must be kept onsite and available for inspection during regular office hours.
- (4) 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.
- (5) 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.
- (6) 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.



- (7) 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.

- (8) 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.

- (9) The FEPTIO application for this emissions unit, K004, was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee. The Toxic Air Contaminant Statute, ORC 3704.03(F), was applied to this emissions unit 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 at over one ton per year 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 emitted from the emissions unit, (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 then adjusted to account for the duration of the exposure or the operating hours of the emissions unit, 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 Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/24 \times 5/7 = 4 TLV/(24 \times 7) = MAGLC$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or worst case toxic contaminant(s):

Toxic Contaminant: Toluene

TLV (ug/m3): 75,360

Maximum Hourly Emission Rate (lbs/hr): 9.12

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,371

MAGLC (ug/m3): 1,794

The permittee, has demonstrated that emissions of toluene, from emissions unit K004, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (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).

- (10) Prior to making any physical changes to or changes in the method of operation of the emissions unit, 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 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 AToxic Air Contaminant Statute<sup>®</sup>, 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.

(11) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the AToxic Air Contaminant Statute<sup>®</sup>, 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 Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the AToxic Air Contaminant Statute<sup>®</sup>, 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 AToxic Air Contaminant Statute<sup>®</sup>, 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 AToxic Air Contaminant Statute<sup>®</sup>, 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.

(12) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the AToxic Air Contaminant Statute<sup>®</sup>, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

e) Reporting Requirements

(1) The permittee shall notify the Hamilton County Department of Environmental Services in writing of each daily record showing a daily volume-weighted average coating VOC content greater than the limitations specified in b)(2)d. through b)(2)g., as applicable. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the exceedance occurs.

(2) The permittee shall submit quarterly deviation (excursion) reports that identify:



- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the Potential to Emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
  - i. VOC emissions shall not exceed 79.42 tons per year (TPY), based upon a rolling, 12-month summation;
  - ii. total VOC input from coatings and cleanup/cleaning solvents employed shall not exceed 79.42 tons per year (TPY);
- 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 (postmarked) each year by the thirty-first of January (covering October to December), the thirtieth of April (covering January to March), the thirty-first of July (covering April to June), and the thirty-first of October (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate district office or local air agency).

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

f) Testing Requirements

- (1) Compliance with the emission limitations in b) of these terms and conditions shall be determined in accordance with the following method(s) identified below:

- a. Emission Limitation:

Volatile Organic Compound (VOC) emissions shall not exceed 168 pounds per hour, excluding cleanup and cleaning solvents.

Applicable Compliance Method:

The hourly VOC emission rate is based on the emissions unit's potential to emit. The potential to emit was calculated by: (maximum spray coating application rate of 42 gallons per hour) x (4.0 lbs of VOC per gallon of coating as worst-case zinc rich primer).

- b. Emission Limitation:



79.42 TPY of VOC emissions from emissions unit K004, including cleanup and cleaning solvents, based on a rolling 12-month summation.

Applicable Compliance Method:

Compliance with the annual VOC emission limitation above shall be based upon the record keeping requirements as specified in d)(2).

c. Emission Limitation:

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by the rule.

Applicable Compliance Method:

When requested, compliance with the above visible emission limitation shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

d. Emission Limitations:

The VOC content of zinc rich primer coatings employed in this emissions unit shall not exceed a daily volume-weighted average of 4.0 lbs per gallon, as applied, excluding water and exempt solvents.

The VOC content of extreme performance coatings employed in this emissions unit shall not exceed a daily volume-weighted average of 3.5 lbs per gallon, as applied, excluding water and exempt solvents.

The VOC content of coatings dried at temperatures not exceeding 200 degrees Fahrenheit employed in this emissions unit shall not exceed a daily volume-weighted average of 3.5 lbs per gallon, as applied, excluding water and exempt solvents.

The VOC content of coatings employed in this emissions unit, that are not specified under b)(2)d., b)(2)e., and b)(2)f., shall not exceed a daily volume-weighted average of 3.0 lbs per gallon, as applied, excluding water and exempt solvents.

Applicable Compliance Method:

In accordance with OAC rule 3745-21-04(B)(5), facilities located in Ashtabula, Butler, Clark, Clermont, Cuyahoga, Delaware, Franklin, Geauga, Greene, Hamilton, Lake, Licking, Lorain, Lucas, Mahoning, Medina, Miami, Montgomery, Portage, Stark, Summit, Trumbull, Warren and Wood Counties shall use USEPA Method 24 to determine the VOC contents of the coatings. If an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.



U.S. EPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup and cleaning solvents.

e. Emission Limitations:

The potential to emit for PE, NOx, and CO emissions shall not exceed 9.9 tons per year.

Applicable Compliance Method:

The annual NOx and CO emission rates are based on this emissions unit's uncontrolled potential to emit from the combustion of natural gas in the surface pretreatment tank burners and drying ovens. The annual NOx and CO emission rates were calculated by the following equation:

$$E_{NOx} = \text{total oven/burner heat input of } 12.5 \text{ mmBtu/hour} \times 0.098 \text{ lbs NOx/mmBtu per AP-42 Table 1.4} \times 8760 \text{ hours}/(2000); \text{ and}$$

$$E_{CO} = \text{total oven/burner heat input of } 12.5 \text{ mmBtu/hour} \times 0.082 \text{ lbs CO/mmBtu per AP-42 Table 1.4} \times 8760 \text{ hours}/(2000);$$

where E = Emissions Rate<sub>(Pollutant)</sub> (tons per year)

The annual PE rate is based on this emission unit's potential to emit at the maximum coating solids usage rate, expected transfer efficiency, and the control efficiency of the blanket fabric filters on the duplex coating spray stations. The annual PE rate was calculated by the following equation:

$$E = \text{maximum coating solids usage rate, in pounds per hour,} \times (1-TE) \times (1-CE) \times (8760 \text{ hrs/yr}) \times (1 \text{ ton}/2000 \text{ pounds})$$

where E = PE rate (tons per year);

TE = fractional transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used (0.40); and

CE = fractional control efficiency of the control equipment (blanket fabric filter) on the duplex coating spray station (0.997).

g) Miscellaneous Requirements

- (1) The terms and conditions of this permit to install and operate shall supersede the terms and conditions of permit to install 1405946 issued on September 18, 2007.