

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

5/14/2014

WILLIAM MULL
MULL IRON
10 MULL DR
RITTMAN, OH 44270

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0285020433
Permit Number: P0116695
Permit Type: Renewal
County: Wayne

Certified Mail

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

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Daily Recorder. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically 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. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street Suite 700
PO Box 1049
Columbus, Ohio 43216-1049

and Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171.

Sincerely,


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

Cc: U.S. EPA Region 5 Via E-Mail Notification
Ohio EPA-NEDO; Canada



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Mull Iron spray paints large structural steel beams and components at their facility in Rittman, Wayne County. The facility operates one paint booth. The spray painting operation is a batch process. There are no ovens associated with the current painting process and the structural steel beams and components are all air dried.

3. Facility Emissions and Attainment Status:

The facility is located in Wayne County, which is currently attainment for all criteria pollutants. The facility emits PE, OC/VOCs and HAPs from one spray coating line.

The facility wide Potentials to Emit (PTE) for PE, OC/VOCs and HAPs will be limited below the Title V thresholds by federally enforceable limits. The facility requested federally enforceable limits in order to maintain the PTE for OC/VOCs and HAPs below the established threshold limits for Title V.

4. Source Emissions:

K001 is a paint spray booth equipped with a electrostatic spray gun and a dry filtration system. The coatings are all air dried and are not photochemically reactive, according to OAC rule 3745-21-01(C).

5. Conclusion:

The permit includes federally enforceable limits for the coating OC/VOC emissions, and coating HAP emissions, as a rolling 12-month summation and the associated recordkeeping and reporting requirements. The limits requested by the facility are sufficient to reduce the facility's PTE for OC/VOCs and HAPs below the established Title V thresholds.

6. Please provide additional notes or comments as necessary:

None



7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	0.13
Single HAP	9.9
Total HAP	24.9
OC/VOC	10.99

PUBLIC NOTICE
5/14/2014 Issuance of Draft Air Pollution Permit-To-Install and Operate

MULL IRON
10 MULL DR,
RITTMAN, OH 44270
Wayne County

FACILITY DESC.: All Other Specialty Trade Contractors

PERMIT #: P0116695

PERMIT TYPE: Renewal

PERMIT DESC: FEPTIO Renewal permit for a structural metal spray coating operation with administrative changes to VOC and PE limits.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitonline.aspx> by entering the permit # or: Richard Smith, Ohio EPA DAPC, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087. Ph: (330)425-9171



DRAFT

**Division of Air Pollution Control
Permit-to-Install and Operate
for
MULL IRON**

Facility ID:	0285020433
Permit Number:	P0116695
Permit Type:	Renewal
Issued:	5/14/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



**Division of Air Pollution Control
Permit-to-Install and Operate
for
MULL IRON**

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Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0285020433
Application Number(s): A0050593
Permit Number: P0116695
Permit Description: FEPTIO Renewal permit for a structural metal spray coating operation with administrative changes to VOC and PE limits.
Permit Type: Renewal
Permit Fee: \$0.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 5/14/2014
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

MULL IRON
10 MULL DR
RITTMAN, OH 44270

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, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330)425-9171

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



Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

Authorization (continued)

Permit Number: P0116695

Permit Description: FEPTIO Renewal permit for a structural metal spray coating operation with administrative changes to VOC and PE limits.

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

Emissions Unit ID:	K001
Company Equipment ID:	Metal coating
Superseded Permit Number:	P0086489
General Permit Category and Type:	Not Applicable



Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

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 Ohio EPA DAPC, Northeast District Office 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.



Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.



Draft Permit-to-Install and Operate

MULL IRON

Permit Number: P0116695

Facility ID: 0285020433

Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. K001, Metal Coating

Operations, Property and/or Equipment Description:

Structural metal spray coating operation.

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)(5), d)(6), d)(7) and e)(3)

(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)(2)b, c)(1) and e)(2)a

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(C)	See b)(2)e, c)(2), c)(3), d)(8), d)(9), d)(10), d)(11), d)(12) and e)(4).
b.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compounds (VOC) emissions shall not exceed 14.0 pounds per hour from all coatings employed.</p> <p>VOC emissions shall not exceed 10.99 tons per year from all coatings and cleanup materials employed.</p> <p>See b)(2)f.</p>
c.	OAC rule 3745-31-05(D)	See b)(2)b and c)(1).
d.	OAC rule 3745-31-05(E)	<p>Particulate emissions (PE) shall not exceed 0.13 ton per year.</p> <p>See b)(2)d.</p>
e.	OAC rule 3745-21-09(U)	See b)(2)a.
f.	OAC rule 3745-17-08	See b)(2)c.



(2) Additional Terms and Conditions

- a. The VOC content of the coatings employed shall not exceed 3.5 lbs per gallon, as applied, excluding water and exempt solvents.
- b. Pursuant to OAC rule 3745-31-05(D), total emissions from emissions units K001 shall not exceed 9.9 tons per year of each individual hazardous air pollutant (HAP), and 24.9 tons per year of total combined HAP, based upon a rolling, 12-month summation.
- c. According to OAC rule 3745-17-08(A)(1) this emissions unit is not subject to fugitive particulate emissions limits because the facility is located in Wayne County.
- d. This air contaminant source takes into account the restricted annual coating usage, (i.e., 6,156 gallons), solids content, (i.e., 10.54 lbs solids/gallon coating), and solids transfer efficiency, (i.e., 60%), as voluntary restrictions as proposed by the permittee for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3).
- e. The permittee shall operate the dry particulate filter system whenever this emissions unit is in operation.
- f. The VOC emission limitations of 14.0 pounds per hour and 10.99 tons per year represent the potential to emit for this emissions unit. Therefore, no monitoring, record keeping or reporting requirements are necessary to demonstrate compliance with the emission limitation.

c) Operational Restrictions

- (1) The maximum annual coating usage for this emissions unit shall not exceed 6,156 gallons, as a rolling, 12-month summation. The maximum annual cleanup material usage (dispensed minus recovered for disposal) for this emissions unit shall not exceed 60 gallons, as a rolling, 12-month summation. The permittee has existing coating and cleanup material usage records such that there is no need for first year monthly VOC emission limitations.
- (2) The permittee shall operate the 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.
- (3) 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.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each month for the coating line:
 - a. the name and identification number of each coating employed;
 - b. the VOC content (excluding water and exempt solvents) of each coating, in lbs/gal as applied;
 - c. the number of gallons (excluding water and exempt solvents) of each coating, as applied;
 - d. the monthly VOC emissions from all the coatings employed, in pounds, [i.e., the sum of (b) times (c) for each coating employed];
 - e. the solids content of each coating;
 - f. the individual HAP content of each coating, in lbs/gal, as applied; and
 - g. the total combined HAP content of each coating, in lbs/gal, as applied.
- (2) The permittee shall collect and record the following cleanup material information for each month for this emissions unit:
 - a. the company identification of each cleanup material employed;
 - b. the number of gallons of each cleanup material employed;
 - c. the VOC content of each cleanup material employed, in pounds per gallon;
 - d. the total VOC emissions from all the cleanup materials employed, in pounds [i.e., the sum of (b) times (c) for each cleanup material employed];
 - e. the amount of cleanup material recovered, in pounds;
 - f. the total monthly VOC emissions from cleanup operations, in pounds [i.e., (d) – {(e) times (c)}]; and
 - g. the total annual cleanup material usage, in gallons, as a rolling, 12-month summation [i.e., the sum of (b) for this month and the previous 11 months].
- (3) The permittee shall collect and record each month the total coating material usage, in gallons, as a rolling, 12-month summation [i.e., the sum of the monthly records in d)(1)c for this month and the previous 11 months].
- (4) The permittee shall calculate and record total annual VOC emissions from coatings and cleanup materials, [i.e., the sum of the monthly VOC emission rates from the coating materials for the calendar year in d)(1) plus the sum of the monthly emissions from cleanup materials for the calendar year in d)(2)].



(5) The FEPTIO application for this/these emissions unit(s), K001, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted 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(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
- b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
- c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" 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):

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

- 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: Xylene

TLV (mg/m3): 434



Maximum Hourly Emission Rate (lbs/hr): 8.0

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2934

MAGLC (ug/m3): 10,333

The permittee, has demonstrated that emissions of xylene, from emissions unit(s) K001, 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).

- (6) 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 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit 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 ORC 3704.03(F), the statute, has been documented. If the change(s) meet(s) the definition of a "modification" or if a new toxic is emitted, or the modeled toxic(s) is/are expected to exceed the previous modeled level(s), then the permittee shall apply for and obtain a final permit-to-install prior to the change. The director may consider any significant departure from the operations of the emissions unit, described in the permit-to-install application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and may require the permittee to submit a permit-to-install application for the increased emissions.

- (7) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute":
- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s)



modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

- b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with 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 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 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.
- (8) 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 Northeast District Office upon request.
- (9) 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 Northeast District Office upon request.
- (10) 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.
- (11) 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 Ohio EPA Northeast District Office upon request.

- (12) 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 Northeast District Office upon request.

e) Reporting Requirements

- (1) The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of each daily record showing greater than 3.5 pounds VOC per gallon, as applied, excluding water and exempt solvents. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 30 days after the exceedance occurs.
- (2) The permittee shall submit quarterly deviation reports that identify:
 - a. any exceedance of the rolling, 12-month coating and cleanup material usage limitation from emissions units K001 and the actual coating and cleanup material usage during the period.

The quarterly deviation reports shall be submitted to the Director (the Ohio EPA Northeast District Office) in accordance with the General Terms and Conditions. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

- (3) 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 Permit Evaluation Report (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.
- (4) The permittee shall notify the Director (Ohio EPA Northeast District Office) in writing of any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA Northeast District Office) within 30 days after the event occurs.
- (5) 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 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

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



a. Emission Limitation:

The VOC content of the coatings employed shall not exceed 3.5 lbs per gallon, as applied, excluding water and exempt solvents.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(1).

b. Emission Limitation:

VOC emissions shall not exceed 14.0 pounds per hour from all coatings.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(1).

c. Emission Limitation:

VOC emissions shall not exceed 10.99 tons per year from all coating and cleanup materials employed.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(4).

d. Emission Limitation:

Total emissions from emissions units K001 shall not exceed 9.9 tons per year of each individual HAP, based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(1), d)(2) and d)(3) and the following equation:

$$\text{Annual individual HAP} = [(CT \times sHAP) + (CM)] \times (\text{ton}/2000 \text{ lbs})$$

where:

CT = the actual gallons of coating employed per year, not to exceed 6,156;

sHAP = the actual individual HAP content of the coatings, in pounds per gallon; and

CM = the actual pounds of cleanup material employed, assumed to be 100% individual HAP, the yearly summation from d)(2).



e. Emission Limitation:

Total emissions from emissions units K001 shall not exceed 24.9 tons per year of total combined HAP, based upon a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(1), d)(2) and d)(3) and the following equation:

$$\text{Annual total combined HAPs} = [(CT \times cHAP) + (CM)] \times (\text{ton}/2000 \text{ lbs})$$

where:

CT = the actual gallons of coating employed per year, not to exceed 6,156;

cHAP = the actual combined HAP content of the coatings, in pounds per gallon; and

CM = the actual pounds of cleanup material employed, assumed to be 100% HAP, the yearly summation from d)(2).

f. Emission Limitation:

PE shall not exceed 0.13 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in d)(1) and the following equation:

$$\text{Annual PE} = (CT) \times (S) \times (1-60\%) \times (\text{ton}/2000 \text{ lbs})$$

where:

CT = the actual gallons of coating employed per year, not to exceed 6,156;

S = the actual solids content of the coatings, in pounds per gallon, not to exceed 10.54 lbs/gal; and

60% = the transfer efficiency of the electrostatic coating operation.

- (2) The permittee shall use USEPA Method 24, environmental data sheet or Environmental Data Sheet to determine the VOC, xylene, ethyl benzene and HAP contents of the coatings and cleanup materials.

g) Miscellaneous Requirements

- (1) The maximum uncontrolled annual particulate emissions from this emissions unit would be approximately 32.44 tons; therefore, the permittee elected a voluntary annual allowable PE limitation of less than 10 tons PE/yr to avoid BAT [see b)(2)d].