



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

12/29/2008

JEFFREY GERBER
BARR LABORATORIES, INC.
225 SUMMIT AVE
MONTVALE, NJ 07645

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1431072038
Permit Number: P0098458
Permit Type: Renewal
County: Hamilton

Certified Mail

No	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, 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.

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
BARR LABORATORIES, INC.**

Facility ID: 1431072038
Permit Number: P0098458
Permit Type: Renewal
Issued: 12/29/2008
Effective: 12/29/2008
Expiration: 12/29/2013



Air Pollution Permit-to-Install and Operate
for
BARR LABORATORIES, INC.

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Division of Air Pollution Control

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Permit Number: P0098458
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Authorization

Facility ID: 1431072038
Application Number(s): A0030127
Permit Number: P0098458
Permit Description: Glatt Granulator
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 12/29/2008
Effective Date: 12/29/2008
Expiration Date: 12/29/2013
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

BARR LABORATORIES, INC.
5040 LESTER RD.
CINCINNATI, OH 45213

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: P0098458

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Effective Date: 12/29/2008

Authorization (continued)

Permit Number: P0098458
Permit Description: Glatt Granulator

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

Emissions Unit ID:	P006
Company Equipment ID:	Glatt Granulator
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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Division of Air Pollution Control

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Facility ID: 1431072038

Effective Date: 12/29/2008

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



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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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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0098458

Facility ID: 1431072038

Effective Date: 12/29/2008

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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

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Facility ID: 1431072038

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C. Emissions Unit Terms and Conditions



1. P006, Glatt Granulator

Operations, Property and/or Equipment Description:

Fluidized Bed Granulator with packed-bed scrubber, carbon adsorption system, and HEPA filter

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. b)(1)f., d)(6), d)(7), d)(8), 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)b., b)(2)e., c)(4), e)(2), and e)(3).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3)	Organic Compound (OC) emissions shall not exceed 39.7 lbs/hr. Particulate Emissions (PE) and Emissions of Particulate Matter 10 microns or less in diameter (PM10) shall not exceed 0.01 lb./hr and 0.01 TPY. See b)(2)b., b)(2)c., b)(2)d., and c)(1) through c)(3). The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
b.	OAC rule 3745-31-05(D) Synthetic minor to avoid Title V	OC emissions shall not exceed 9.38 TPY based upon a rolling, 12-month summation. See b)(2)e. and c)(4)
c.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		limit established pursuant to OAC rule 3745-31-05 (A)(3)
d.	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limit established pursuant to OAC rule 3745-31-05 (A)(3)
e.	OAC rule 3745-21-07(G)	The emission limitation specified by this rule is less stringent than the emission limit established pursuant to OAC rule 3745-31-05 (A)(3)
f.	ORC 3704.03(F)(4)(c)	See d)(4), d)(5) and d)(6).

(2) Additional Terms and Conditions

- a. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of HEPA filter and packed-bed scrubber or carbon adsorption system, and compliance with the visible and mass emissions limitations and material usage limitations.
- b. The permittee shall control the OC emissions from this emissions unit by use of a packed-bed scrubber capable of maintaining a minimum overall OC control efficiency of 90% by weight.
- c. When manufacturing products utilizing chloroform, the exhaust gas from this emissions unit shall be controlled by a dual bed carbon adsorption unit prior to the packed-bed scrubber capable of maintaining a minimum overall OC control efficiency of 99% by weight.
- d. Visible particulate emissions from this emissions unit shall not exceed 10% opacity, as a six- minute average.
- e. The actual emissions of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from emissions units P006 (Glatt Fluid Bed Granulator) and P007 (Niro Fluid Bed Granulator) at this facility shall not exceed 9.9 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.

The permittee has existing records to demonstrate compliance with the limitations in b)(2)e. upon permit issuance.
- f. The hourly emission limitation for OC outlined above is based on the emissions unit=s potential to emit (PTE). Therefore, no records are required to demonstrate compliance with this limit.
- g. The requirements established under OAC rule 3745-21-07 shall cease to be effective and federally enforceable on the date the U.S. EPA approves the current rule as a revision to the Ohio SIP for the control of organic compounds.



c) Operational Restrictions

- (1) The scrubber water supply pressure shall be continuously maintained at a value not less than that established during the most recent emission test that demonstrated compliance while the emissions unit is in operation.
- (2) The scrubber water flow rate shall be continuously maintained at a value not less than that established during the most recent emission test that demonstrated compliance while the emissions unit is in operation.
- (3) The OC concentration in the exhaust gases from the first bed of the dual bed carbon adsorption system shall not exceed an OC concentration (ppm) of 50 ppm.
- (4) The material usage for this emissions unit P006 shall be restricted such that the OC emissions from this emissions unit P006 shall not exceed 85,050 kg (187,600 lbs)pounds per year, based upon a rolling, 12-month summation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate and maintain equipment to continuously monitor the scrubber water supply pressure and scrubber water flow rate while the emissions unit is in operation. The monitoring devices shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, with deviations as deemed necessary by the permittee.

The permittee shall collect and record the following information each day that the emissions unit is operating:

- a. The scrubber water flow rate, in gallons per minute.
 - b. The scrubber water supply pressure, in psig.
 - c. A log of the downtime for the capture (collection) system, control device and monitoring equipment when the associated emissions unit was in operation.
- (2) The permittee shall collect and record the following information for each batch:
 - a. Date the batch was produced.
 - b. The company identification of the product manufactured in each batch.
 - c. The alcohol (lbs), chloroform (lbs), and other OCs sprayed in each batch, by company product identification. This information may be kept in a separate, master record of batch formulation data.
 - (3) The permittee shall collect and record the following information each month:
 - a. The total OC-containing material usage, in pounds.
 - b. The total number of batches per month.



- c. The monthly OC emissions.

The monthly OC emissions shall be calculated as follows:

Monthly OC emissions (lbs/month) = total alcohol sprayed during a month (pounds) * (1 - the scrubber control efficiency determined during the most recent performance test for alcohol usage) + the total chloroform sprayed during the same month (pounds) * (1 - the carbon adsorption system control efficiency for chloroform usage [99%]).

- d. The updated rolling, 12-month summation of total OC-containing material usage, in pounds.
- e. The updated rolling, 12-month summation of total OC emissions, in tons.

These records shall be summarized at the end of each calendar year to determine the annual OC emissions.

- (4) The permittee shall operate and maintain an organic monitoring device and recorder which measures and records the OC concentrations in the exhaust gases from the first bed of the dual bed carbon adsorption system when the emissions unit is in operation, and using chloroform.

The permittee shall collect and record the following information each day:

- a. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
- b. The OC concentration in ppm (parts per million) in the exhaust gases from the first bed of the dual bed carbon adsorption system (when the emissions unit was in operation, and using chloroform).

- (5) The permittee shall collect and record the following information each month for emissions units P006 (Glatt Fluid Bed Granulator) and P007 (Niro Fluid Bed Granulator):

- a. The name and company I.D. for each product manufactured.
- b. The total number of batches produced of each product.
- c. The individual Hazardous Air Pollutant (HAP)*** content for each HAP of each product in pounds of individual HAP per batch of product.
- d. The total combined HAP content of each product in pounds of combined HAPs per batch of product [sum all individual HAP contents from (c)].
- e. The total individual HAP emissions for each HAP from all products in pounds per month, calculated as follows:
 - i. b. H c. H (100% - 90%) for methanol
 - ii. b. H c. H (100% - 99%) for chloroform



f. If individual HAPs other than methanol and chloroform are employed in this emissions unit, total individual HAP emissions for each HAP from all products, in pounds per month, calculated as follows:

i. b. H c. H (100% - control efficiency)

where the value for the control efficiency is based on measurements or calculations with written approval from Hamilton County Department of Environmental Services.

g. The total combined HAP emissions from all products, in pounds per month, calculated as the sum of d)(5)e.i. + d)(5)e.ii. + additional records identified in d)(5)f.

h. 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.

i. The updated rolling, 12-month summation of emissions for total combined HAP, 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 your Hamilton County Department of Environmental Services contact.

(6) The FEPTIO application for this emissions unit, P006, 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 AToxic Air Contaminant Statute^o, 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 AReview of New Sources of Air Toxic Emissions, Option A^o, 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) AThreshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices^o;

or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists= (ACGIH) AThreshold



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., 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):

$$\text{TLV}/10 \times 8/24 \times 5/7 = 4 \text{ TLV}/XY = \text{MAGLC}$$

- 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: Chloroform

TLV (mg/m³): 48800

Maximum Hourly Emission Rate (lbs/hr): 3.97

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 403.3

MAGLC (ug/m³): 1162

- e. The permittee, has demonstrated that emissions of chloroform, from emissions unit P006, 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).
- (7) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and



- c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the AToxic 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, 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 PTI, PTIO, or FEPTIO (as applicable) 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.

- (8) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the AToxic 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 Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the AToxic Air Contaminant Statute, ORC 3704.03(F);
- c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the AToxic 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 AToxic 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.

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, 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) 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.

- (2) The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:
 - a. 85,080 kg (187,600 lbs) of OC input per year limitation, based upon a rolling, 12-month summation.
 - b. 9.38 tons per year OC emissions limitation based upon a rolling, 12-month summation.
- (3) The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in b)(2)e.
- (4) The deviation reports shall be submitted in accordance with the General Terms and Conditions of 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 quarterly deviation (excursion) reports. 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 emission limitations specified in Section b)(1) shall be determined by the following methods:
 - a. Emission limitation:

 Visible particulate emissions from any stack shall not exceed 10 percent opacity, as a 6-minute average.

 Applicable Compliance Method:

 Compliance with the visible particulate emission limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
 - b. Emission limitation:

 0.01 lb PM/PM10/hr and 0.01 TPY

 Applicable Compliance Method:

 Compliance shall be determined utilizing the total dry material throughput (in lbs/hr) multiplied by the minimum HEPA control efficiency of 99.97%. The annual emission rate is obtained by multiplying the hourly emission rate by 8760 hours per year and dividing by 2000 lbs/ton.



c. Emission limitation:

39.7 lbs OC/hr

Applicable Compliance Method:

The weight rate of OC sprayed in this emissions unit specified in d)(3)c., multiplied by 1 minus the overall control efficiency of the appropriate control technique as documented in Permit to Install application 14-05680 received on February 8, 2005.

d. Emission limitation:

9.38 TPY OC based upon a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be determined by the record keeping in d)(3).

- (2) Compliance with the requirement to maintain a minimum overall OC control efficiency of 90% by weight at the scrubber, per b)(2)b., shall be demonstrated by the latest scrubber OC control efficiency test and supported by mass transfer calculations from the scrubber manufacturer provided in the PTI application 14-05680 as received on February 8, 2005 and compliance with the scrubber operating requirements in c)(1) and c)(2).
- (3) Compliance with the requirement to maintain a minimum overall OC control efficiency of 99% by weight at the carbon adsorber, per b)(2)c., shall be demonstrated by the latest carbon adsorber OC control efficiency test and supported by data provided in the PTI application 14-05680 as received on February 8, 2005 and compliance with the carbon adsorber operating requirements in c)(3).
- (4) Compliance with the scrubber water supply pressure limitation in c)(1) shall be demonstrated by the recordkeeping in d)(1).
- (5) Compliance with the scrubber water flow rate limitation in c)(2) shall be demonstrated by the recordkeeping in d)(1).
- (6) Compliance with the OC concentration limitation in c)(3) shall be demonstrated by the recordkeeping in d)(4).
- (7) Compliance with the OC usage limitation in c)(4) shall be demonstrated by the recordkeeping in d)(3).
- (8) Compliance with the HAPs emissions limitations in b)(2)e. shall be demonstrated by the recordkeeping in d)(5).

g) Miscellaneous Requirements

- (1) None.