



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

11/3/2015

Certified Mail

Mr. Randall Parker  
 Pittsburgh Glass Works, LLC  
 5066 Lincoln Highway  
 Crestline, OH 44827

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

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

Facility ID: 0370000217  
 Permit Number: P0119518  
 Permit Type: Initial Installation  
 County: Richland

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, Mansfield News-Journal. 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](http://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, Northwest District Office  
 347 North Dunbridge Road  
 Bowling Green, OH 43402

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, Northwest District Office at (419)352-8461.

Sincerely,

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

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



## Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

This permit serves to permit five new window assembly lines (Lines 23, 24, 25 A&B, 26 A&B, and 27 A&B) and one new door window assembly line (Line 4). The permit will incorporate the synthetic minor limitations that were previously established in PTI #03-13402, issued on February 27, 2001.

3. Facility Emissions and Attainment Status:

This facility has requested synthetic minor restrictions because the facility's potential emissions of volatile organic compounds (VOC) exceeds 100 tons per year and potential emissions of hazardous air pollutants (HAP) exceeds 10 tons per year for a single HAP and 25 tons per year for combined HAPs. Federally enforceable restrictions will lower potential emissions of the above mentioned pollutants to below Title V and MACT major source thresholds. Pittsburgh Glass Works, LLC is located in Richland County and is classified as a minor facility for Title V purposes. Richland County is designated attainment for all criteria pollutants.

4. Source Emissions:

The company has requested the following maximum, annual coating usage rates for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined, in order to reduce their annual emissions rates to avoid the requirements of Title V permitting:

- a. 3,050 gallons of coatings with a maximum VOC content of 11.0 pounds/gallon per rolling, 12-month period;
- b. 25,067 gallons of coatings with a maximum VOC content of 7.0 pounds/gallon per rolling, 12-month period; and
- c. 25,067 gallons for all coatings combined per rolling, 12-month period.

These emission rates result in an annual VOC emission rate of 93.86 tons VOC per rolling, 12-month period for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined.

The facility has also requested the following federally enforceable HAP emission rates for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined, in order to avoid the requirements of MACT permitting:

- a. 9.90 tons per rolling, 12-month period for any individual HAP; and
- b. 24.90 tons per rolling, 12-month period for any combination of HAPs.

5. Conclusion:

In order to avoid Title V permitting requirements and MACT applicability, federally enforceable limits will be imposed on Pittsburgh Glass Works, LLC for combined VOC and HAPs emissions to ensure the facility's potential emission rates remain below the Title V and MACT significance thresholds.

6. Please provide additional notes or comments as necessary:

None.

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

<b>Pollutant</b>	<b>TPY</b>
VOC	1,216 lbs/month averaged over a 12-month rolling period from coating and cleanup materials for each emissions unit individually
VOC	93.86 tons/rolling, 12-month period for K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined
HAPs	9.90 tons/rolling, 12-month period for K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined
HAPs	24.90 tons/rolling, 12-month period for K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 combined

## PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: [HClerk@epa.ohio.gov](mailto:HClerk@epa.ohio.gov)

Draft Air Pollution Permit-to-Install and Operate Initial Installation  
Pittsburgh Glass Works, LLC

5066 Lincoln Highway,, Crestline, OH 44827

ID#:P0119518

Date of Action: 11/3/2015

Permit Desc:Initial installation of five window assembly lines (Lines 23, 24, 25 A&B, 26 A&B, and 27 A&B) and one door window assembly line (Line 4)..

The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the ID # or: Andrea Moore, Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402. Ph: (419)352-8461





**DRAFT**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Pittsburgh Glass Works, LLC**

Facility ID:	0370000217
Permit Number:	P0119518
Permit Type:	Initial Installation
Issued:	11/3/2015
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  
Pittsburgh Glass Works, LLC

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**Draft Permit-to-Install and Operate**

Pittsburgh Glass Works, LLC

**Permit Number:** P0119518

**Facility ID:** 0370000217

**Effective Date:** To be entered upon final issuance

## Authorization

Facility ID: 0370000217  
Application Number(s): A0053875  
Permit Number: P0119518  
Permit Description: Initial installation of five window assembly lines (Lines 23, 24, 25 A&B, 26 A&B, and 27 A&B) and one door window assembly line (Line 4).  
Permit Type: Initial Installation  
Permit Fee: \$1,200.00 *DO NOT send payment at this time, subject to change before final issuance*  
Issue Date: 11/3/2015  
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:

Pittsburgh Glass Works, LLC  
5066 Lincoln Highway  
Crestline, OH 44827

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, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419)352-8461

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler  
Director



## Authorization (continued)

Permit Number: P0119518

Permit Description: Initial installation of five window assembly lines (Lines 23, 24, 25 A&B, 26 A&B, and 27 A&B) and one door window assembly line (Line 4).

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

**Group Name: Window and Door Assembly Lines**

<b>Emissions Unit ID:</b>	<b>P055</b>
Company Equipment ID:	Window Assembly Cell/Line 26A&B
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P057</b>
Company Equipment ID:	Window Assembly Cell/Line 24
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P058</b>
Company Equipment ID:	Window Assembly Cell/Line 23
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P059</b>
Company Equipment ID:	Window Assembly Cell/Line 25A&B
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P060</b>
Company Equipment ID:	Window Assembly Cell/Line 27A&B
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P061</b>
Company Equipment ID:	Door Window Assembly Cell/Line 4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



**Draft Permit-to-Install and Operate**  
Pittsburgh Glass Works, LLC  
**Permit Number:** P0119518  
**Facility ID:** 0370000217  
**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, Northwest 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**

Pittsburgh Glass Works, LLC

**Permit Number:** P0119518

**Facility ID:** 0370000217

**Effective Date:** To be entered upon final issuance

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



**Draft Permit-to-Install and Operate**

Pittsburgh Glass Works, LLC

**Permit Number:** P0119518

**Facility ID:** 0370000217

**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**  
Pittsburgh Glass Works, LLC  
**Permit Number:** P0119518  
**Facility ID:** 0370000217  
**Effective Date:** To be entered upon final issuance

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



**1. Emissions Unit Group -Window and Door Assembly Lines: P055, P057, P058, P059, P060, and P061**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P055	Window Assembly Cell/Line 26 A&B
P057	Window Assembly Cell/Line 24
P058	Window Assembly Cell/Line 23
P059	Window Assembly Cell/Line 25 A&B
P060	Window Assembly Cell/Line 27 A&B
P061	Door Window Assembly Cell/Line 4

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)e. and d)(5), d)(6), d)(7), d)(8) and e)(2).

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

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

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) June 30, 2008	1,216 lbs volatile organic compounds (VOC)/month, averaged over a twelve month rolling period for coating and cleanup materials for each emissions unit individually  See b)(2)a. below
b.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC emissions from this air contaminant source since the potential to emit is less than 10 tons/year taking into account the



**Draft Permit-to-Install and Operate**

Pittsburgh Glass Works, LLC

**Permit Number:** P0119518

**Facility ID:** 0370000217

**Effective Date:** To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		federally enforceable restriction in b)(1)d. below.  See b)(2)b. below
c.	OAC rule 3745-21-07(M)	See b)(2)c. below
d.	OAC rule 3745-31-05(D)	93.86 tons VOC per rolling, 12-month period for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined  9.90 tons per rolling, 12-month period for any individual Hazardous Air Pollutant (HAP*) and 24.90 tons per rolling, 12-month period for any combination of HAPs for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined  See b)(2)d. below  *Hazardous Air Pollutant (HAP) as defined in Section 112(b) of the Clean Air Act
e.	ORC 3704.03(F) and OAC rule 3745-114-01	See d)(5), d)(6), d)(7), d)(8) and e)(2).

(2) Additional Terms and Conditions

- a. This BAT emissions limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. This emissions unit is not subject to the requirements of this rule because it does not meet all of the conditions outlined in OAC rule 3745-21-07(M)(3)(a).
- d. The permittee has requested federally enforceable limitations for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined, of 93.86 tons of VOC, 9.9 tons of any individual HAP, and 24.9 tons of combined HAPs per rolling, 12-month period. These limitations are based on VOC/HAP content and gallon usage restrictions for the purpose of avoiding Title V applicability [See c)(1), c)(2) and c)(3)].



Federally enforceable limitations for VOC and HAPs were initially established in Permit-to-Install 03-13402 issued on 2/27/01 and, as such the facility has existing records for VOC and HAP emissions in lieu of establishing monthly emission restrictions for the first year of operation.

c) Operational Restrictions

- (1) The permittee shall not employ any coating, as applied, in excess of 7.0 lbs VOC/gallon (process coatings) and 11.0 lbs VOC/gallon (machinist ink and/or special order process coatings).
- (2) The maximum annual coating usage for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined shall not exceed any of the following:
  - a. 3,050 gallons of coating with a maximum VOC content of 11.0 lbs/gallon of coating;
  - b. 25,067 gallons of coating with a maximum VOC content of 7.0 lbs/gallon of coating; and
  - c. 25,067 gallons for all coatings combined.

Compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the monthly coating usage rates.

- (3) Combined annual HAP emissions from emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061 shall not exceed 9.9 tons per year for any individual HAP and 24.9 tons per year for any combination HAPs, based upon rolling, 12-month summations of the monthly HAP emissions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following information each month for this emissions unit:
  - a. the VOC emissions from the coating and cleanup operations, in tons;
  - b. the rolling, 12-month summation of VOC emissions, in tons; and
  - c. the average monthly VOC emissions, in tons, averaged over a twelve month rolling period.
- (2) The permittee shall collect and record the following information each month for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined:
  - a. The company identification for each coating and cleanup material employed;
  - b. the VOC content of each coating and cleanup material, in lbs VOC/gallon;

- c. the number of gallons of each coating and cleanup material employed;
  - d. the VOC emission rate for each coating and cleanup material [d)(2)b. x d)(2)c. x 1 ton/2000 lbs] in tons/month;
  - e. the total VOC emission rate for all coatings and cleanup materials [summation of d)(2)d. in tons per month]; and
  - f. the rolling, 12-month summation of the VOC emissions, in tons.
- (3) In addition to the above information, the permittee shall also record the following information for each month for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined:
- a. The annual\* number of gallons of coatings with a maximum VOC content of 7.0 lbs/gallon of coating;
  - b. The annual\* number of gallons of coatings with a maximum VOC content of 11.0 lbs/gallon of coating; and
  - c. The annual\* number of gallons of all coatings.
- \*Based upon a rolling, 12-month summation of the coating usage rates.
- (4) The permittee shall collect and record the following information regarding HAPs emissions each month for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined:
- a. the company identification of each coating and cleanup material employed;
  - b. the lbs per gallon of each HAP in each coating and cleanup material, as applied;
  - c. the number of gallons of each coating and cleanup material employed;
  - d. the emission rate for each HAP from each coating and cleanup material employed [d)(4)b. x d)(4)c. in lbs/month];
  - e. the total emission rate for each HAP from all coatings and cleanup materials employed [summation of d)(4)d.] in lbs/month;
  - f. the total HAP emissions rate for all combined HAPs from all coatings and cleanup materials employed [summation of d)(4)e.] in lbs/month; and
  - g. the rolling, 12-month summations for each individual HAP and all combined HAPs emissions, in tons.
- (5) The PTIO application for these emissions units 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/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 SCREEN3. 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 "worst case" toxic contaminant:

Pollutant: toluene\*

TLV (mg/m3): 75.36

Maximum Hourly Emission Rate (lbs/hr): 11.76

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m3): 153.5

MAGLC (ug/m3): 1,794.33

\*All emissions assumed to be toluene since toluene is the worst case pollutant

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

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

- (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", 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 “Toxic Air Contaminant Statute”, ORC 3704.03(F);
  - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
  - d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.
- (8) 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 “Toxic 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) 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. the rolling, 12-month VOC emission limitation of 93.86 tons;
      - ii. the maximum allowable gallon usage rates and VOC content limitations specified in paragraphs c)(1) and c)(2); and
      - iii. the maximum emissions limitations for each HAP and total combined HAPs specified in paragraph c)(3).
    - 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, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September),

unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.
- (3) The permittee shall include 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) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

1,216 lbs of VOC/month, from coating and cleanup materials averaged over a 12-month rolling period for each emissions unit individually

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements as specified in d)(1).



**Draft Permit-to-Install and Operate**

Pittsburgh Glass Works, LLC

**Permit Number:** P0119518

**Facility ID:** 0370000217

**Effective Date:** To be entered upon final issuance

b. Emission Limitation:

93.86 tons VOC per rolling, 12-month period (for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined)

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements as specified in d)(2).

c. Emission Limitation:

9.9 tons per rolling, 12-month period of any individual HAP and 24.9 tons per rolling, 12-month period of any combination of HAPs (for emissions units K004, P019-P029, P031-P044, P047, P050-P052, P054, P055, and P057-P061, combined)

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements as specified in d)(4).

g) Miscellaneous Requirements

(1) None.