



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

12/28/2012

Certified Mail

Facility ID: 0123010078  
Permit Number: P0082433  
County: Fairfield

Mr. Robert Ryder  
Anchor Hocking, LLC  
1115 W. Fifth Avenue  
Lancaster, OH 43130

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT  
Permit Type: Renewal

Dear Permit Holder:

Enclosed is a final Ohio Environmental Protection Agency (EPA) Air Pollution Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

**How to appeal this permit**

The issuance of this Title V permit is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
77 South High Street, 17th Floor  
Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office as indicated on page one of your permit.

Sincerely,



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

Cc: U.S. EPA Region 5 *Via E-Mail Notification*  
Ohio EPA DAPC, Central District Office



**FINAL**

**Division of Air Pollution Control  
Title V Permit  
for  
Anchor Hocking, LLC**

Facility ID:	0123010078
Permit Number:	P0082433
Permit Type:	Renewal
Issued:	12/28/2012
Effective:	1/18/2013
Expiration:	1/18/2018





**Division of Air Pollution Control**  
**Title V Permit**  
for  
Anchor Hocking, LLC

**Table of Contents**

Authorization .....	1
A. Standard Terms and Conditions .....	2
1. Federally Enforceable Standard Terms and Conditions .....	3
2. Monitoring and Related Record Keeping and Reporting Requirements.....	3
3. Scheduled Maintenance.....	6
4. Risk Management Plans .....	7
5. Title IV Provisions .....	7
6. Severability Clause .....	7
7. General Requirements .....	7
8. Fees.....	8
9. Marketable Permit Programs.....	8
10. Reasonably Anticipated Operating Scenarios .....	9
11. Reopening for Cause .....	9
12. Federal and State Enforceability .....	9
13. Compliance Requirements .....	9
14. Permit Shield .....	11
15. Operational Flexibility.....	11
16. Emergencies.....	11
17. Off-Permit Changes .....	12
18. Compliance Method Requirements .....	12
19. Insignificant Activities or Emissions Levels.....	12
20. Permit to Install Requirement.....	13
21. Air Pollution Nuisance .....	13
22. Permanent Shutdown of an Emissions Unit .....	13
23. Title VI Provisions .....	13
24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only .....	14
25. Records Retention Requirements Under State Law Only.....	14
26. Inspections and Information Requests .....	14
27. Scheduled Maintenance/Malfunction Reporting .....	15
28. Permit Transfers .....	15



29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations .....	15
B. Facility-Wide Terms and Conditions.....	16
C. Emissions Unit Terms and Conditions .....	18
1. Emissions Unit Group - Boilers: B001, B003, B004, and B005.....	19
2. F001, Batch Unloading.....	25
3. Emissions Unit Group - Automatic Spray Booths: K005, K008.....	29
4. P001, Box Plant Cyclone .....	36
5. P002, Mold Shop Baghouse.....	39
6. P006, Furnace/Tank 1-2 .....	41
7. P007, Furnace/Tank 1-1 .....	46
8. P008, Unloading & Cullet Baghouse .....	51
9. P009, Furnace/Tank 1-3 .....	56
10. P010, Batch Weighing and Handling.....	63
11. P011, Glass Forming/Annealing.....	68



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
**Effective Date:** 1/18/2013

## Authorization

Facility ID: 0123010078  
Facility Description: Pressed and blown glass  
Application Number(s): A0012732, A0012733, A0012734, A0040864  
Permit Number: P0082433  
Permit Description: Title V Renewal permit for glass manufacturing plant  
Permit Type: Renewal  
Issue Date: 12/28/2012  
Effective Date: 1/18/2013  
Expiration Date: 1/18/2018  
Superseded Permit Number: P0082432

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Anchor Hocking, LLC  
1115 W. Fifth Avenue  
Lancaster, OH 43130

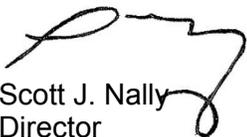
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Central District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
**Effective Date:** 1/18/2013

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



**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
  - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
  - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
  - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

*(Authority for term: ORC 3704.036(A))*

**2. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*

- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*



c) The permittee shall submit required reports in the following manner:

- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:



Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule,



all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))*

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Central District Office.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

### **3. Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*



#### **4. Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

#### **5. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

*(Authority for term: OAC rule 3745-77-07(A)(5))*

#### **6. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

*(Authority for term: OAC rule 3745-77-07(A)(6))*

#### **7. General Requirements**

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.



- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
  - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
  - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

*(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))*

## **8. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

## **9. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(9))*



**10. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

**11. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

**12. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

*(Authority for term: OAC rule 3745-77-07(B))*

**13. Compliance Requirements**

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official



that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
  
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
  
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
  - (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
  - (2) Compliance certifications shall include the following:
    - a. An identification of each term or condition of this permit that is the basis of the certification.
    - b. The permittee's current compliance status.
    - c. Whether compliance was continuous or intermittent.



- d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.
  - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

#### **14. Permit Shield**

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

#### **15. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

#### **16. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

*(Authority for term: OAC rule 3745-77-07(G))*



## **17. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

*(Authority for term: OAC rule 3745-77-07(I))*

## **18. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

*(This term is provided for informational purposes only.)*

## **19. Insignificant Activities or Emissions Levels**

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

*(Authority for term: OAC rule 3745-77-07(A)(1))*



**20. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**21. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**22. Permanent Shutdown of an Emissions Unit**

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-01)*

**23. Title VI Provisions**

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.



- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

*(Authority for term: OAC rule 3745-77-01(H)(11))*

**24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**25. Records Retention Requirements Under State Law Only**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**26. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with



this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

*(Authority for term: OAC rule 3745-77-07(C))*

**27. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**28. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

*(Authority for term: OAC rule 3745-77-01(C))*

**29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
**Effective Date:** 1/18/2013

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



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
  - a) None.
2. The following emission units contained in this permit are subject to 40 CFR Part 60, Subpart CC: P009. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
3. The Ohio EPA, Central District Office has approved the Compliance Assurance Monitoring (CAM) plan submitted by the permittee, pursuant to 40 CFR Part 64, for emissions units P008 and P010. The permittee shall comply with the provisions of the plan (as specified in Part C – Terms and Conditions for Emissions Units) during any operation of the aforementioned emissions units.  
  
[Authority for term: 40 CFR Part 64]
4. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21, and/or 40 CFR Part 60 or 63:
  - a) Manual Spray Booth No. 1 (ID No. K003) – PTI P0105055
  - b) Manual Spray Booth No. 2 (ID No. K004) – PTI P0105055
  - c) Decorating Lehr No. 1 (ID No. P012) – PTI 01-08964
  - d) Decorating Lehr No. 2 (ID No. P013) – PTI 01-08964



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
**Effective Date:** 1/18/2013

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



**1. Emissions Unit Group - Boilers: B001, B003, B004, and B005**

EU ID	Operations, Property and/or Equipment Description
B001	Natural gas/No. 2/No. 6 fuel oil-fired Boiler 1 (8.36 MMBtu/hr)
B003	Natural gas/No. 2/No. 6 fuel oil-fired Boiler 2 (8.36 MMBtu/hr)
B004	Natural gas/No. 2/No. 6 fuel oil-fired Boiler 3 (8.36 MMBtu/hr)
B005	Natural gas/No. 2/No. 6 fuel oil-fired Boiler 4 (8.36 MMBtu/hr)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by the rule.
b.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 pound per million Btu actual heat input (lb/MMBtu) when burning natural gas or No. 2 fuel oil.
c.	OAC rule 3745-17-10(C)(1)	PE shall not exceed 0.40 lb/MMBtu when burning No. 6 fuel oil.
d.	OAC rule 3745-31-05(A)(3) (PTI 01-6442)	Emissions shall not exceed:  1.72 lbs PE/hr 26.37 lbs sulfur dioxide (SO <sub>2</sub> ) per hour (hr) 0.06 lb volatile organic compound (VOC)/hr 3.08 lbs nitrogen oxide (NO <sub>x</sub> )/hr 0.71 lb carbon monoxide (CO)/hr  See Sections b)(2)a. and c)(1).

(2) Additional Terms and Conditions

a. The hourly mass emission limits for PE, SO<sub>2</sub>, VOC, NO<sub>x</sub>, and CO listed in Section b)(1) for this emissions unit were established by OAC rule 3745-31-05(A)(3) to reflect the potential to emit for this emissions unit based on the maximum sulfur



content for fuel oil in c)(1). Therefore, no additional monitoring, record keeping or reporting are required to ensure compliance with these limits.

c) Operational Restrictions

- (1) The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis.

(Authority for term: OAC rule 3745-77-07(A)(1) & PTI 01-6442)

d) Monitoring and/or Recordkeeping Requirements

- (1) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (2) Whenever a fuel other than natural gas and/or No. 2 fuel oil is burned in this emissions unit, the permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

Daily checks of visible emissions shall not be required when only natural gas and/or No. 2 fuel oil are being burned in this emissions unit.

(Authority for term: OAC rule 3745-77-07(C)(1))



e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section c)(1), based upon the sulfur content of the fuel oil. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-6442)

- (2) The permittee shall submit semiannual written reports that identify the following:
  - a. All days during which any visible PE were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and
  - b. A description of any corrective actions taken to minimize or eliminate the visible particulate emissions.

The reports shall be submitted to the Director ((the appropriate District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous six-month period.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

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

0.020 lb PE/MMBtu actual heat input while burning natural gas or No. 2 fuel oil

0.40 lb PE/MMBtu actual heat input while burning No. 6 fuel oil

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (1.9 lbs PE/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.36 MMBtu).



For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs PE/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.36 MMBtu).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (17.2 lbs PE/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.36 MMBtu).

If required, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or Local Air Agency.

(Authority for term: OAC rule 3745-77-07(C)(1) & OAC rule 3745-17-10(B)(1))

b. Emission Limitation

20 percent opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1) & OAC rule 3745-17-03(B)(1))

c. Emission Limitation

1.72 lbs PE/hr

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (7.6 lbs PE/ MMcu.ft.).

For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs PE/1000 gal).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (9.19S+3.22 lbs PE/1000 gal).



If required, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or Local Air Agency.

(Authority for term: OAC rule 3745-77-07(C)(1))

d. Emission Limitation

26.37 lbs SO<sub>2</sub>/hr

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (0.6 lbs SO<sub>2</sub>/MMcu.ft.).

For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (142S lbs SO<sub>2</sub>/1000 gal).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (157S lbs SO<sub>2</sub>/1000 gal).

(Authority for term: OAC rule 3745-77-07(C)(1) & PTI 01-6442)

e. Emission Limitation

0.06 lb VOC/hr

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.5 lbs VOC/MMcu.ft.).

For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (0.34 lb VOC/1000 gal).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (1.13 lbs VOC /1000 gal).

(Authority for term: OAC rule 3745-77-07(C)(1) & PTI 01-6442)



f. Emission Limitation

3.08 lbsNO<sub>x</sub>/hr

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbsNO<sub>x</sub>/MMcu.ft.).

For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (20 lbsNO<sub>x</sub>/1000 gal).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (55 lbsNO<sub>x</sub>/1000 gal).

(Authority for term: OAC rule 3745-77-07(C)(1) & PTI 01-6442)

g. Emission Limitation

0.71 lb CO/hr

Applicable Compliance Method

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (84 lbs CO/MMcu.ft.).

For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gallons (gal)/hr) by the AP-42 emission factor for No. 2 fuel oil (5 lbs CO/1000 gal).

For the use of No. 6 fuel oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 fuel oil (5 lbs CO /1000 gal).

(Authority for term: OAC rule 3745-77-07(C)(1) & PTI 01-6442)

g) Miscellaneous Requirements

(1) None.



**2. F001, Batch Unloading**

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

Raw material handling of minor ingredients and weighing operations, controlled with a baghouse but venting indoors (no stack)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

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) PTI 01-4264	0.50 lb PE/hr  Visible fugitive emissions from the building egress points shall not exceed 20 percent opacity as a 3-minute average.
b.	OAC rule 3745-17-08(B)	See Section b)(2)a.
c.	OAC rule 3745-17-07(A)	See Section b)(2)b.

(2) Additional Terms and Conditions

a. This emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08; therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

b. Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07, the following monitoring and recordkeeping requirements are as stringent as or more stringent than the monitoring and recordkeeping requirements contained in Permit to Install # 01-4264, issued on May 19, 1993: The monitoring and recordkeeping requirements contained in the above referenced Permit to Install are subsumed into the monitoring and record keeping



requirements of this operating permit so that compliance with these requirements constitute compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

- (2) The permittee shall maintain daily records of the type and quantity of material processed (with appropriate supporting data and calculations) and the hours of operation.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (3) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

(Authority for term: OAC rule 3745-77-07(C)(1))

e) Reporting Requirements

- (1) Pursuant to OAC Rule 3745-7-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-4264, issued on May 19, 1993. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.



- (2) The permittee shall submit quarterly reports to Ohio EPA Central District Office which summarize the following:
- a. Identification of materials processed;
  - b. Tons of materials processed;
  - c. Hours of operation; and
  - d. Daily average emissions of PM calculated in accordance with f)(1)a. of these terms and conditions.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(Authority for term: OAC rule 3745-77-07(C)(1))

- (3) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (4) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

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

0.50 lb PE/hr



Applicable Compliance Method

Compliance shall be based upon hourly average material process rate in tons/hr ([e](2)b.)/[e](2)c.]) multiplied by the controlled RACM emission factor for material handling processes ([1.0 lb/ton] x [1-0.98]). Note: AP-42, Table 11.15-1, states that particulate emissions from material handling at glass manufacturing facilities are negligible.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-4264)

b. Emission Limitation

20 percent opacity as a 3-minute average

Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

g) **Miscellaneous Requirements**

(1) None.



**3. Emissions Unit Group - Automatic Spray Booths: K005, K008**

EU ID	Operations, Property and/or Equipment Description
K005	Auto spray booth No.1
K008	Chain-on-edge machine

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) d)(8).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.  See d)(1).
b.	OAC rule 3745-17-11(C)	See c)(1), c)(2), and d)(2) through d)(6).
c.	OAC rule 3745-31-05(A)(3)	Emissions from emissions unit K005 shall not exceed 12.42 lbs/hr of VOC.  Emissions from emissions unit K008 shall not exceed 9.05 lbs/h) of VOC.  See b)(2)a., b)(2)b., and b)(2)c.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D).
d.	OAC rule 3745-31-05(D) (synthetic minor to avoid NSR)	Emissions from emission units K005 and K008 combined shall not exceed, as a rolling 12-month summation 12.75 tons of VOC from coating material usage.  See b)(2)d., b)(2)e., and d)(7).



(2) Additional Terms and Conditions

- a. The hourly VOC emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, no additional monitoring, recordkeeping and/or reporting is necessary to ensure compliance with these limits.
- b. Water shall be the only cleanup material used in this emissions unit.
- c. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE emissions from this air contaminant source since the uncontrolled potential to emit for PE is less than 10 tons per year.

[OAC rule 3745-31-05(A)(3)(a)(ii)]

- d. This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the coating usage, upon issuance of this permit. The maximum annual coating usage for this emissions unit shall not exceed 59,171 pounds, based upon a rolling, 12-month summation of the coating usage figures.
- e. The maximum coating content shall not exceed 3.62 pounds of VOC per gallon, excluding water and exempt solvents.

c) Operational Restrictions

- (1) 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.

[OAC rule 3745-17-11(C)(1) and (2)(b)]

- (2) The permittee shall expeditiously repair the dry particulate filter or otherwise return it to normal operations, as recommended by the manufacturer with any modifications deemed necessary by the permittee, whenever it is determined that the control device is not operating in accordance with these requirements.

[OAC rule 3745-17-11(C)(2)(e)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;



- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

After the permittee has performed daily checks of the emissions unit for one calendar quarter and no visible particulate emissions have been observed, the permittee may begin visible particulate emissions checks of the emissions unit once per week. If visible particulate emissions are observed during subsequent weekly inspections, the permittee shall return to a frequency of visible particulate emissions checks of once per day until no visible particulate emissions are observed for another calendar quarter.

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[OAC 3745-17-11(C)(2)(a)]

- (3) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[OAC rule 3745-17-11(C)(2)(c)]

- (4) 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.

[OAC rule 3745-17-11(C)(2)(c)]



- (5) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
- a. the date of the inspection;
  - b. a description of each/any problem identified and the date it was corrected;
  - c. a description of any maintenance and repairs performed; and
  - d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[OAC rule 3745-17-11(C)(2)(d) and (f)]

- (6) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[OAC rule 3745-17-11(C)(2)(f) and (g) for OAC rule 3745-17-11(C)(1)]

- (7) The permittee shall collect, record and maintain monthly records of the following information for emission units K005 and K008:
- a. The name and identification of each coating material, as applied;
  - b. The VOC content for each coating material, in pounds of VOC per gallon of coating material, excluding water and exempt solvents, as applied;
  - c. The density of each coating material, in pounds per gallon of coating material, as applied;
  - d. The number of pounds applied of each coating material, excluding water and exempt solvents, as applied;
  - e. The rolling, 12-month summation of the coating usage, in pounds, excluding water and exempt solvents;
  - f. The total VOC emissions rate for all coating materials, in pounds per month  $((b \times d)/c)$ ; and
  - g. The total VOC emissions rate for all coating materials, in pounds per rolling, 12-month summation  $((b \times e)/c)$ , (to derive emissions in tons as a rolling, 12-month summation, divide by 2000).



- (8) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, due to the modification, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

[ORC 3704.03(F)(3)(c) and F(4)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:
- a. 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(s) was/were in operation;
  - b. the rolling, 12-month coating usage limitation;
  - c. the maximum volatile organic coating content limitation of 3.62 pounds of VOC per gallon; and
  - d. the rolling 12-month emissions limitation of 12.75 tons of VOC from coating material usage.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[OAC rule 3745-15-03(B)(1)(a) and OAC rule 3745-15-03(C); and OAC rule 3745-77-07(A)(3)(c)]



- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

f) Testing Requirements

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

a. Emissions Limitation:

VOC emissions from K005 shall not exceed 12.42 lbs/hr.  
VOC emissions from K008 shall not exceed 9.05 lbs/hr.

Applicable Compliance Method:

The hourly emission limitations is based upon each emissions unit's potential to emit. Potential VOC emissions were determined using the following equations based on information supplied by the permittee in PTI application A0037792 as submitted on June 15, 2009:

For K005:  $VOC = (3.43 \text{ gallons per hour maximum coating usage}) \times (3.62 \text{ pounds VOC per gallon maximum coating VOC content})$ .

For K008:  $VOC = (2.50 \text{ gallons per hour maximum coating usage}) \times (3.62 \text{ pounds VOC per gallon maximum coating VOC content})$ .

b. Emissions Limitation:

For emission units K005 and K008, VOC emissions from coatings shall not exceed 12.75 tons as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section d)(7).

c. Emission Limitation:

VOC content of the coatings applied shall not exceed 3.62 pounds of VOC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:

Compliance with the VOC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section d)(7). Formulation data from the coating manufacturer and/or if required USEPA Method 24 (or an alternative approved method) shall be used to determine the



volatile organic compound content of the coatings to be used in the calculation of the emissions.

d. Emission Limitations:

Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1)..

g) Miscellaneous Requirements

(1) None.



**4. P001, Box Plant Cyclone**

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

Cardboard shredding controlled with cyclone/multiclone

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 2.91 lbs/hr.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;



- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

(Authority for term: OAC rule 3745-77-07(A)(3))

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

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  
20 percent opacity, as a six-minute average, except as provided by rule.



Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-07(A)(1))

b. Emission Limitation

2.91 lbs PE/hr

Applicable Compliance Method

If required, the Permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

(Authority for term: OAC rule 3745-77-07(C)(1))

g) Miscellaneous Requirements

(1) None.



**5. P002, Mold Shop Baghouse**

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

Mold shop machining controlled with a baghouse but venting indoors (no stack)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)	See b)(2)a.
b.	OAC rule 3745-17-08(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

b. This emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08; therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
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g) Miscellaneous Requirements

(1) None.



**6. P006, Furnace/Tank 1-2**

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

9.0 tons per hour uncontrolled glass melting furnace (Furnace 1-2)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by the rule
b.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 17.9 lbs/hr.
c.	OAC rule 3745-18-06(E)(2)	SO <sub>2</sub> emissions shall not exceed 130.8 lbs/hr.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain hourly records of the glass pull rate of each furnace operation, including calculations.

(Authority for term: OAC rule 3745-77-07(C)(1))

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

(Authority for term: OAC rule 3745-77-07(A)(3))

e) Reporting Requirements

- (1) The permittee shall notify the Director (Ohio EPA, Central District Office) in writing of any record showing an exceedance of the allowable glass pull rate. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Central District Office) within 30 days following the end of the calendar month in which the exceedance occurred.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (2) The permittee shall submit semiannual written reports that identify:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))



- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

f) Testing Requirements

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

a. Emissions Limitation

17.9 lbs PE/hr

Appropriate Compliance Method

The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- i. Emission testing for emissions unit P006 shall be conducted within 6 months after permit issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rate for particulates.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 5      40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
- v. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the



test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

- vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10))

b. Emission Limitation

20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

c. Emission Limitation

130.8 lbs SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly capacity of the emissions unit (9.0 tons/hr) by the AP-42 emission factor, found in Table 11.15-1, for container glass manufacturing (3.4 lbs SO<sub>2</sub>/ton).

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 6 or 6C.

(Authority for term: OAC rule 3745-77-07(C)(1))



**Final Title V Permit**  
Anchor Hocking, LLC  
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g) Miscellaneous Requirements

(1) None.



**7. P007, Furnace/Tank 1-1**

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

9.5 tons per hour uncontrolled glass melting furnace (Furnace 1-1)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 18.53 lb/hr.
c.	OAC rule 3745-18-06(E)(2)	SO <sub>2</sub> emissions shall not exceed 135.6 lbs/hr.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain hourly records of the glass pull rate of each furnace operation, including calculations.

(Authority for term: OAC rule 3745-77-07(C)(1))

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:



- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

(Authority for term: OAC rule 3745-77-07(A)(3))

e) Reporting Requirements

- (1) The permittee shall notify the Director (Ohio EPA, Central District Office) in writing of any record showing an exceedance of the allowable glass pull rate. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Central District Office) within 30 days following the end of the calendar month in which an exceedance occurred.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (2) The permittee shall submit semiannual written reports that identify:
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))



- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

f) Testing Requirements

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

a. Emissions Limitation

18.53 lbs PE/hr

Appropriate Compliance Method

The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- i. Emission testing for emissions unit P007 shall be conducted within 12 months after permit issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rate for particulates.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 5 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
- v. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the



test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

- vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10))

b. Emission Limitation

20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1))

c. Emission Limitation

135.6 lbs SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly capacity of the emissions unit (9.5 tons/hr) by the AP-42 emission factor, found in Table 11.15-1, for container glass manufacturing (3.4 lbs SO<sub>2</sub>/ton).

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 6 or 6C.

(Authority for term: OAC rule 3745-77-07(C)(1))



**Final Title V Permit**  
Anchor Hocking, LLC  
**Permit Number:** P0082433  
**Facility ID:** 0123010078  
**Effective Date:** 1/18/2013

g) Miscellaneous Requirements

(1) None.



**8. P008, Unloading & Cullet Baghouse**

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

Raw material unloading and cullet crushing and handling controlled with two baghouses

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(1)	PE shall not exceed 51.2 lbs/hr.
c.	OAC rule 3745-17-07(B)	See b)(2)a.
d.	OAC rule 3745-17-08(B)	See b)(2)b.
e.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See c)(1), d)(2) through d)(4) and e)(1)a.

(2) Additional Terms and Conditions

a. Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

b. This emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, therefore, the requirement of OAC rule 3745-17-08(B) do not apply to this emissions unit.

c) Operational Restrictions

(1) The pressure drop across the baghouse controlling the cullet and hotbins silos shall be maintained within a range of no less than 2 and not greater than 6 inches of water column, while the emissions unit is in operation. The pressure drop across the baghouse controlling the cullet silos shall be maintained within the manufacturer's recommended range of no less than 1 and not greater than 6 inches of water column, while the emissions unit is in operation.



d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for one full calendar quarter the facility's visual observations indicate no visible particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible particulate emissions are observed during a weekly visual observation reading until no visible particulate emissions are observed for another calendar quarter.

(Authority for term: OAC rule 3745-77-07(A)(3))

(2) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. The permittee shall record:



- a. pressure drop across the baghouses for each day of operation; and
- b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (3) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily pressure drop monitoring across the baghouse. When the daily pressure drop readings show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (4) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the Ohio EPA Central District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (5) The permittee shall maintain daily records of the following information:
  - a. quantity of major ingredients and cullet processed in the emissions unit, in tons, and
  - b. hours of operation.

(Authority for term: OAC rule 3745-77-07(C)(1))

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
  - a. each day, during which the pressure drop across the baghouse filter did not comply with the allowable range specified in c)(1), above;
  - b. all days during which any visible particulate emissions were observed from the baghouses; and
  - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.



These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) The permittee shall submit quarterly reports to the Ohio EPA, Central District Office, which summarize the following:
- a. daily quantity of major ingredients and cullet processed, in tons; and
  - b. daily hours of operation.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

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

51.2 lb PE/hr

Applicable Compliance Method

Compliance shall be based on the sum of the daily average hourly material handling rate [(d)(5)a.)/(d)(5)b.)] multiplied by the uncontrolled RACM emission factor for combined material handling processes [(1.56 lbs/ton) x (0.10)], where 10% is the uncaptured percentage of all particulate emissions and the daily average hourly material handling rate [(d)(5)a.)/(d)(5)b.)] multiplied by the controlled RACM emission factor for combined material handling processes [1.56 lb/ton x 0.90 x (1-0.995)] where 90% is the captured percentage of all particulate emissions and 99.5% is the baghouse removal efficiency. Note: AP-42, Table 11.15-1, states that particulate emissions from material handling at glass manufacturing facilities are negligible.

If required, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates, and sampling shall be conducted simultaneously at all emission points, unless otherwise specified or approved by Ohio EPA, Central District Office.



(Authority for term: OAC rule 3745-77-07(C)(1))

b. Emission Limitation

20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

(Authority for term: OAC rule 3745-77-07(C)(1))

g) **Miscellaneous Requirements**

(1) None.



**9. P009, Furnace/Tank 1-3**

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

9.0 tons per hour modified process glass melting furnace including a continuous opacity monitor (Furnace 1-3)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

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.	40 CFR Part 60, Subpart CC	Visible PE from any stack shall not exceed 10.3 percent opacity, as a 6-minute average.  The PE limitation from 40 CFR Part 60, Subpart CC (1.0 lb PE/ton of glass pulled) is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).  See b)(2)a.
b.	OAC rule 3745-31-05(A)(3) (PTI 01-3867)	Emissions shall not exceed:  0.9 lb PE/ton of glass produced; 0.9 lb PM <sub>10</sub> /ton of glass produced; 20.0 lbsNO <sub>x</sub> /ton of glass produced; 1.26 lbs SO <sub>2</sub> /ton of glass produced; 0.0147 lb CO/ton of glass produced; 0.3 lb VOC/ton of glass produced; 0.0004 lb Lead (Pb)/ton of glass produced.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart CC.  See b)(2)b.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rules 3745-17-11(B)(1) and 3745-17-07(A)(1)	The limitations from these rules are equal to or less stringent than the above limitations.
d.	OAC rule 3745-18-06(E)(2)	The SO <sub>2</sub> limitation from this rule is less stringent than the SO <sub>2</sub> limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The opacity limitation was established to correspond to the 99 percent upper confidence level of a normal distribution of the opacity recorded during the initial compliance demonstration, as 6-minute averages, pursuant to 40 CFR Part 60.293(c).

The permittee may petition to modify this limitation, in accordance with the methodology detailed in 40 CFR Part 60.293(d), pursuant to the most recent compliance demonstration.

- b. The 0.9 lb PM<sub>10</sub>/ton of glass produced limitation was established during development of permit to install 01-3867 for this emissions unit and assumes that all PM emissions from the source are PM<sub>10</sub>. Stack testing performed on May 29, 1996 supports this assumption. Therefore, it is not necessary to develop record keeping requirements or compliance methods separate from those stated for PE emissions.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain hourly records of the glass pull rate of each furnace operation, including calculations.
- (2) The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (1-minute) and 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

(Authority for term: OAC rule 3745-77-07(C)(1))



- (3) The continuous emission monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

- (4) A statement of certification for the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to Ohio EPA upon request.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

- (5) The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous, valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept onsite and be made available to the Director (Ohio EPA Central District Office).

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

- (6) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements necessary to demonstrate compliance with 40 CFR Part 60, Subpart CC.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

e) Reporting Requirements

- (1) Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in Section A.I.1, detailing the date, commencement and completion times, duration, percent opacity, reason (if known), and corrective actions taken for each 6-minute block average above the applicable opacity limitation(s).

(Authority for term: OAC rule 3745-77-07(C)(1))

- (2) The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was online (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions



unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was online shall be included in the quarterly report.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (3) If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was online also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (4) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (5) The permittee shall comply with the applicable monitoring and/or recordkeeping requirements necessary to demonstrate compliance with 40 CFR Part 60, Subpart CC.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

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

0.9 lb PE/ton of glass produced

Applicable Compliance Method

The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- i. Emission testing for emissions unit P009 shall be conducted within two and a half years after permit issuance.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rate for particulates.



- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 5 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
- v. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency..

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(10) and PTI 01-3867)

b. Emission Limitation

0.9 lb PM<sub>10</sub>/ton glass produced



Applicable Compliance Method

The 0.9 lb PM<sub>10</sub>/ton of glass produced limitation was established during development of permit to install 01-3867 for this emissions unit and assumes that all PM emissions from the source are PM<sub>10</sub>. Stack testing performed on May 29, 1996 supports this assumption. Therefore, it is not necessary to develop record keeping requirements or compliance methods separate from those stated for PM emissions.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

c. Emission Limitation

20.0 lbsNO<sub>x</sub>/ton glass produced

Applicable Compliance Method

Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (19.95 lbsNO<sub>x</sub>/ton glass) or upon an emission factor developed through future stack testing.

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 7 or 7E.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

d. Emission Limitation

1.26 lbs SO<sub>2</sub>/ton glass produced

Applicable Compliance Method

Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (1.26 lbs SO<sub>2</sub>/ton glass) or upon an emission factor developed through future stack testing.

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 6 or 6C.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

e. Emission Limitation

0.0147 lb CO/ton glass produced

Applicable Compliance Method

Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (0.0147 lb CO/ton glass) or upon an emission factor developed through future stack testing.



If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 10.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

f. Emission Limitation

0.3 lb VOC/ton glass produced

Applicable Compliance Method

Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (0.3 lb VOC/ton glass) or upon an emission factor developed through future stack testing.

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 25 or 25A (where appropriate).

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

g. Emission Limitation

0.0004 lbPb/ton glass produced

Applicable Compliance Method

Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (0.0003 lbPb/ton glass) or upon an emission factor developed through future stack testing.

If required, stack testing shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 12.

(Authority for term: OAC rule 3745-77-07(C)(1) and PTI 01-3867)

- (2) The permittee shall comply with the applicable testing requirements necessary to demonstrate compliance with 40 CFR Part 60, Subpart CC.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart CC)

g) Miscellaneous Requirements

- (1) None.



**10. P010, Batch Weighing and Handling**

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

Batch unloading of major ingredients from storage silos to weighing operations controlled with multiple dust collectors

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and PTI 01-4264.
c.	OAC rule 3745-31-05(A)(3) (PTI 01-4264)	PE shall not exceed 0.5 lb/hr.
d.	OAC rule 3745-17-07(B)	See b)(2)a.
e.	OAC rule 3745-17-08(B)	See b)(2)b.
f.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See c)(1), d)(2) through d)(4), and e)(1).

- (2) Additional Terms and Conditions
  - a. Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.
  - b. This emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08; therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.



c) Operational Restrictions

- (1) The pressure drop across each baghouse, with the exception of the baghouse controlling the batch conveyor, shall be maintained within the manufacturer's recommended range of no less than 1 and not greater than 6 inches of water column, while the emissions unit is in operation. The pressure drop across the baghouse controlling the batch conveyor shall be maintained within a range of no less than 2 and not greater than 6 inches of water column, while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for one full calendar quarter the facility's visual observations indicate no visible particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.



The permittee shall revert to daily readings if any visible particulate emissions are observed during a weekly visual observation reading until no visible particulate emissions are observed for another calendar quarter.

(Authority for term: OAC rule 3745-77-07(C)(1))

- (2) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual. The permittee shall record:
- a. pressure drop across the baghouses for each day of operation; and
  - b. a log or record of downtime for the control device and monitoring equipment, when the associated emissions unit is in operation.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (3) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily pressure drop monitoring across the baghouse. When the daily pressure drop readings show operation outside its normal or usual manner of operation, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (4) If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the Ohio EPA Central District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (5) The permittee shall maintain daily records of the following information:
- a. the type and quantity of materials processed in the emissions unit, in tons; and
  - b. the hours of operation of the emissions unit.

(Authority for term: OAC rule 3745-77-07(C)(1))



e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify:

- a. each day, during which the pressure drop across the baghouse filter did not comply with the allowable range specified in c)(1), above;
- b. all days during which any visible particulate emissions were observed from the baghouses; and
- c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) The permittee shall submit quarterly reports to the Ohio EPA Central District Office which summarize the following:

- a. Identification of material processed;
- b. Tons of material processed; and
- c. Hours of operation.

The quarterly reports shall be submitted each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

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

20 percent opacity, as a six-minute average, except as provided by rule



Applicable Compliance Method

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

b. Emission Limitation

0.5 lb PE/hr

Applicable Compliance Method

Compliance shall be based upon average hourly material process rate in tons/hr ((d)(5)a.)/(d)(5)b.]) multiplied by the controlled RACM emission factor for material handling processes ([0.56 lb/ton] x [1-0.995]). Note: AP-42, Table 11.15-1, states that particulate emissions from material handling at glass manufacturing facilities are negligible.

If required, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

g) Miscellaneous Requirements

(1) None.



**11. P011, Glass Forming/Annealing**

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

Uncontrolled glass forming (pressing/blowing), annealing, tempering, and heat soak lines (180 MMBtu total heat input, no stack)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)	See b)(2)a.
b.	OAC rule 3745-17-08(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

b. This emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08; therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.



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. None.

g) Miscellaneous Requirements

(1) None.