



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

06/11/08

CERTIFIED MAIL

**RE: Draft Title V Chapter 3745-77
permit**

04-48-01-0066
Libbey Glass Inc.
Shawn W. Zablocki
1201 Buckeye Street
Toledo, OH 43611

Dear Shawn W. Zablocki:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Toledo Div of Environmental Services within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled. **In order to facilitate our review of all the comments or concerns you may have with the enclosed draft permit, please provide a hand marked-up copy of the draft permit showing the changes you think are necessary, along with any additional summary comments, by the end of the draft public comment period. The hard marked-up copy and any additional summary comments should be submitted to the Ohio EPA District Office or local air agency identified below and to the following address:**

**Andrew Hall
Permit Review/Development Section
Ohio EPA, Division of Air Pollution Control
122 South Front Street
Columbus, Ohio 43215**

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions concerning this draft Title V permit, please contact Toledo Div of Environmental Services.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: USEPA (electronically submitted)
File, DAPC PIER
Toledo Div of Environmental Services
Indiana
Michigan



State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 06/11/08

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 04-48-01-0066 to:

Libbey Glass Inc.
1201 Buckeye Street
Toledo, OH 43611

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include units B004 through B006, F003 through F010, and P003 through P022.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419) 936-3015

Ohio Environmental Protection Agency

Chris Korleski
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. 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 A.III of Part III of this Title V permit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

- i. The date, place (as defined in the permit), and time of sampling or measurements.
- ii. The date(s) analyses were performed.
- iii. The company or entity that performed the analyses.
- iv. The analytical techniques or methods used.
- v. The results of such analyses.
- vi. 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:

- i. **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 General Term and Condition A.1.c.ii 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) constitutes a violation of an emission limitation (or control requirement) and, therefore, 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))

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II 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 General 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 General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

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

- iii. **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 General Term and Condition A.1.c.ii 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; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii 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 Part II.A 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 General Term and Condition A.1.c.ii 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))

- iv. 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))

- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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

2. 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 General Term and Condition A.1.c.i above.

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

3. 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))

4. 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))

5. 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))

6. 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 A.10 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 upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
 - i. 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
 - ii. 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
 - iii. a combination of i. and ii. above.

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))

7. 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))

8. 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))

9. 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 general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. 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))

11. 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))

12. 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:
 - i. 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.
 - ii. 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.

- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. 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:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. 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:
- i. 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.
 - ii. 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.
 - iii. 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))

13. 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))*

14. 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))

15. 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))

16. 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))

17. 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.)

18. 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))

19. 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))

20. 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))

21. 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)

22. 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))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

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.)

2. Records Retention Requirements

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.

3. 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.

4. 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).

5. 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.

6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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 General Term and Condition A.1.c.ii; 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.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. The following insignificant emissions units are located at this facility:

B003 - boiler #4, 7.323 mmBtu; and
P023 - mycalex machining room.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

F001 - batch unloading facilities;
F002 - batch house;
G001 - gasoline dispensing facility;
K001 - maintenance paint booth
T002 - 10,000 gallon #2 fuel oil storage tank;
T003 - 30,000 gallon #2 fuel oil storage tank;
Z002 - groundwater treatment plant;
Z003 - cullet crusher #1;
Z004 - cullet crusher #2; and
Z005 - forehearth stirrer preheater.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler #1 (B004)

Activity Description: 10.3 MMBTU/hr Cleaver Brooks boiler model CB 200-227 gas with #2 oil backup

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-367, as modified on February 19, 2002	carbon monoxide emissions (CO) shall not exceed 0.09 pound per million Btu of actual heat input; nitrogen oxides emissions (NOx) shall not exceed 0.145 pound per million Btu of actual heat input; sulfur dioxide emissions (SO2) shall not exceed 0.52 pound per million Btu of actual heat input; volatile organic compound emissions (VOC) 0.01 pound per million Btu of actual heat input; and see Section A.1.2.a
	OAC rule 3745-31-05(C) synthetic minor limitation established by PTI 04-367, as modified on February 19, 2002	see Section A.1.2.b
	OAC rule 3745-17-07(A)(1)	see Section A.1.2.c
	OAC rule 3745-17-10(B)(1)	particulate emissions (PE) shall not exceed 0.020 pound per million Btu of actual heat input
	OAC rule 3745-18-06(D)	see Section A.1.2.d
	OAC rule 3745-21-07(B)	see Section A.1.2.e
	OAC rule 3745-21-08(B)	see Section A.1.2.f

2. Additional Terms and Conditions

- 2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-10(B)(1).

2. Additional Terms and Conditions (continued)

- 2.b** The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of CO, 18.4 tons of NO_x, 1.23 tons of PE, 38.04 tons of SO₂ or 0.74 ton of VOC as rolling, 12-month summations.
- 2.c** Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
- visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.d** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

- The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.
[Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

3. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.

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

4. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;
 - c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 1.9 pounds of PE per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 2 pounds per thousand gallons (Table 1.3-1, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.e Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides emissions per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 7 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.g Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.h Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas; divide the emission factor of 0.6 pound of SO₂ emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 142S pounds of SO₂ per thousand gallons (Table 1.3-1, 9/98 Edition where S is the percentage of sulfur in the fuel recorded in Section III) by the fuel oil heating value, in mmBtu/1000gal recorded in Section III.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.i Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) sulfur dioxide emission factor for #2 fuel oil combustion of 142S pounds of sulfur dioxide per thousand gallons where S = 0.5, by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the sulfur dioxide emission factors through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

V. Testing Requirements (continued)

1.j Emission Limitation:

0.01 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 5.5 pounds of VOC emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 0.2 pound per thousand gallons (Table 1.3-3, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.k Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler #2 (B005)

Activity Description: 10.3 MMBTU/hr Cleaver Brooks boiler model CB 200-227

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-367, as modified on February 19, 2002	carbon monoxide emissions (CO) shall not exceed 0.09 pound per million Btu of actual heat input; nitrogen oxides emissions (NOx) shall not exceed 0.145 pound per million Btu of actual heat input; sulfur dioxide emissions (SO2) shall not exceed 0.52 pound per million Btu of actual heat input; volatile organic compound emissions (VOC) 0.01 pound per million Btu of actual heat input; and see Section A.1.2.a
	OAC rule 3745-31-05(C) synthetic minor limitation established by PTI 04-367, as modified on February 19, 2002	see Section A.1.2.b
	OAC rule 3745-17-07(A)(1)	see Section A.1.2.c
	OAC rule 3745-17-10(B)(1)	particulate emissions (PE) shall not exceed 0.020 pound per million Btu of actual heat input
	OAC rule 3745-18-06(D)	see Section A.1.2.d
	OAC rule 3745-21-07(B)	see Section A.1.2.e
	OAC rule 3745-21-08(B)	see Section A.1.2.f

2. Additional Terms and Conditions

- 2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-10(B)(1).

2. Additional Terms and Conditions (continued)

- 2.b** The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of CO, 18.4 tons of NO_x, 1.23 tons of PE, 38.04 tons of SO₂ or 0.74 ton of VOC as rolling, 12-month summations.
- 2.c** Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
- visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.d** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

- The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.
[Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

3. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.

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

4. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;
 - c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 1.9 pounds of PE per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 2 pounds per thousand gallons (Table 1.3-1, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.e Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides emissions per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 7 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.g Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.h Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas; divide the emission factor of 0.6 pound of SO₂ emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 142S pounds of SO₂ per thousand gallons (Table 1.3-1, 9/98 Edition where S is the percentage of sulfur in the fuel recorded in Section III) by the fuel oil heating value, in mmBtu/1000gal recorded in Section III.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.i Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) sulfur dioxide emission factor for #2 fuel oil combustion of 142S pounds of sulfur dioxide per thousand gallons where S = 0.5, by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the sulfur dioxide emission factors through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

V. Testing Requirements (continued)

1.j Emission Limitation:

0.01 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 5.5 pounds of VOC emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 0.2 pound per thousand gallons (Table 1.3-3, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.k Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler #3 (B006)

Activity Description: 10.3 MMBTU/hr Cleaver Brooks boiler model CB 200-227

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-367, as modified on February 19, 2002	carbon monoxide emissions (CO) shall not exceed 0.09 pound per million Btu of actual heat input; nitrogen oxides emissions (NOx) shall not exceed 0.145 pound per million Btu of actual heat input; sulfur dioxide emissions (SO2) shall not exceed 0.52 pound per million Btu of actual heat input; volatile organic compound emissions (VOC) 0.01 pound per million Btu of actual heat input; and see Section A.1.2.a
	OAC rule 3745-31-05(C) synthetic minor limitation established by PTI 04-367, as modified on February 19, 2002	see Section A.1.2.b
	OAC rule 3745-17-07(A)(1)	see Section A.1.2.c
	OAC rule 3745-17-10(B)(1)	particulate emissions (PE) shall not exceed 0.020 pound per million Btu of actual heat input
	OAC rule 3745-18-06(D)	see Section A.1.2.d
	OAC rule 3745-21-07(B)	see Section A.1.2.e
	OAC rule 3745-21-08(B)	see Section A.1.2.f

2. Additional Terms and Conditions

- 2.a The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-10(B)(1).

2. Additional Terms and Conditions (continued)

- 2.b** The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of CO, 18.4 tons of NO_x, 1.23 tons of PE, 38.04 tons of SO₂ or 0.74 ton of VOC as rolling, 12-month summations.
- 2.c** Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
- visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.d** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-367.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

- The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.
[Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

3. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.

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

4. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;
 - c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

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

1.b Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.d Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 1.9 pounds of PE per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 2 pounds per thousand gallons (Table 1.3-1, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.e Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas: divide the emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas (Table 1.4-2 dated 7/98) by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides emissions per thousand gallons (Table 1.3-1, 9/98 Edition) by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 7 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.g Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

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

V. Testing Requirements (continued)

1.h Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors as follows:

for natural gas; divide the emission factor of 0.6 pound of SO₂ emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil: divide the emission factor for #2 fuel oil combustion of 142S pounds of SO₂ per thousand gallons (Table 1.3-1, 9/98 Edition where S is the percentage of sulfur in the fuel recorded in Section III) by the fuel oil heating value, in mmBtu/1000gal recorded in Section III.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.i Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (Table 1.3-1, 9/98 Edition) sulfur dioxide emission factor for #2 fuel oil combustion of 142S pounds of sulfur dioxide per thousand gallons where S = 0.5, by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) sulfur dioxide emission factor of 0.6 pound of sulfur dioxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the sulfur dioxide emission factors through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

V. Testing Requirements (continued)

1.j Emission Limitation:

0.01 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, as follows:

for natural gas; divide the emission factor of 5.5 pounds of VOC emissions per million standard cubic feet (Table 1.4-2 dated 7/98) by a heating value of 1020 Btus per standard cubic foot, and

for #2 fuel oil; divide the emission factor of 0.2 pound per thousand gallons (Table 1.3-3, 9/98 Edition) by average #2 fuel oil heating value of 140 million Btu per thousand gallons.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.k Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

Compliance shall be demonstrated by the following calculation:

multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: A-1 Forming line (F003)
Activity Description: Glass forming line A-1 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line A-1 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 47 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

47 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line A-1 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: B-1 Forming line (F004)
Activity Description: Glass forming line B-1 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line B-1 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 43 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

43 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line B-1 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: F-2 Forming line (F007)
Activity Description: Glass forming line F-2 and annealing lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line F-2 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 52 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

52 lbs/hr of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line F-2 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: D-3 Forming line (F008)
Activity Description: Glass forming line D-3 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-3 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 41 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

41 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-3 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: E-1 Forming line (F009)
Activity Description: Glass forming line E-1 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line E-1 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 45 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

45 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line E-1 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: F-1 Forming line (F010)
Activity Description: Glass forming line F-1 and annealing lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line F-1 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 41 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

41 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line F-1 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: D-2 Forming line (F011)
Activity Description: Glass forming line D-2 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-2 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 47 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

47 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-2 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G-2 Forming line (F012)
Activity Description: Glass forming line G-2 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-2 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 32 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

32 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-2 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G-3 Forming line (F013)
Activity Description: Glass forming line G-3 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-3 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 33 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

33 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-3 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G-6 Forming line (F014)
Activity Description: Glass forming line G-6 and annealing lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-6 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 41 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

41 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-6 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G-5 Forming line (F015)
Activity Description: Glass forming line G-5 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-5 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	see Section A.I.2.a
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.b
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide shall not exceed 47 pounds per hour; and see Section A.I.2.c
	OAC rule 3745-21-07(G)(2)	emissions of organic materials shall not exceed 8 pounds per hour and 40 pounds per day
	OAC rule 3745-21-07(G)(9)(f)	exemption, see Section A.I.2.d

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- 2.b It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.
- 2.c The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation.
- 2.d The provisions of OAC rule 3745-21-07(G)(2) shall not apply on any day during which the emissions of organic materials into the atmosphere are not photochemically reactive.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term: OAC rule 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in pounds per gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in pounds per day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in pounds per hour (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 pounds day, and the actual organic compound emissions for each such day.

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

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3)

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

1.b Emission Limitation:

47 pounds per hour of sulfur dioxide

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

8 pounds per hour and 40 pounds per day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-5 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Roadways and parking lots (F018)
Activity Description: Plant roadways, parking lots and loading areas

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas (see Section A.2.a)	OAC rule 3745-17-07 (B)(4)	no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, and A.2.e through A.2.i)
unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-17-07 (B)(5)	no visible particulate emissions except for 13 minutes during any 60-minute period
	OAC rule 3745-17-08 (B), (B)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.i)

2. Additional Terms and Conditions

- The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

- Ash Street office parking
- Ash Street entrance
- Ash Street lower lot
- Ash Street upper lot
- batch unloading
- Buckeye Street pad
- Buckeye Street parking lot
- cullet yard
- DC loading docks
- NFC parking lot

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

2. Additional Terms and Conditions (continued)

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

DC Int plant docks
Inland storage
security road
service drive actyl
trailer field

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

- 2.c** The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with a suitable dust suppression chemicals or by the reapplication of aggregate at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.g** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.i** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following minimum frequencies:

- a. weekly for paved roadways and parking areas; and
- b. daily for unpaved roadways and parking areas.

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

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

3. For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

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

4. The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

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

IV. Reporting Requirements (continued)

2. The deviation reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved and unpaved, roadways and parking areas	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G-4 Forming line (F019)
Activity Description: Glass forming line G-4 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-4 and annealing Lehr with no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-1376 as issued 9/30/2004	emissions of carbon monoxide (CO) shall not exceed 2.64 pounds per hour and 11.56 tons per year; emissions of nitrogen oxides (NOx) shall not exceed 0.46 pound per hour and 2.02 tons per year; particulate emissions (PE) shall not exceed 0.18 pound per hour and 0.79 ton per year; emissions of particulate matter less than 10 micron in diameter (PM10) shall not exceed 0.19 pound per hour and 0.83 ton per year, emissions of sulfur dioxide (SO2) shall not exceed 0.023 pound per hour and 0.1 ton per year; emissions of volatile organic compounds (VOC) shall not exceed 0.87 pound per hour and 3.81 tons per rolling 12-month period; and see Sections A.1.2.a and 2.b
	OAC rule 3745-17-07(B)(1)	see Section A.1.2.c
	OAC rule 3745-17-08(B), (B)(3)	see Section A.1.2.c
	OAC rule 3745-18-06(E)(2)	see Section A.1.2.c
	OAC rule 3745-21-07(G)(9)(f)	exemption for the use of non-photochemically reactive materials
	OAC rule 3745-21-08(B)	see Section A.1.2.d

2. Additional Terms and Conditions

- Visible particulate emissions shall not exceed 5% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.

2. Additional Terms and Conditions (continued)

- 2.b** The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 04-01376. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

- 1. The permittee shall burn only acetylene, natural gas and/or propane as fuel in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]
- 2. The use of photochemically reactive mold release agent in this emissions unit is prohibited.
[Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than acetylene, natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[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 fugitive particulate emissions 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 emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check by the permittee or an Ohio EPA inspector indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

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

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall collect and record the following information each month for this emissions unit.
 - a. the company identification of each mold release agent employed;
 - b. whether or not the mold release agent is a photochemically reactive material as defined under OAC rule 3745-21-01(C)(5);
 - c. the number of gallons (or quantity), minus water, of each mold release agent employed;
 - d. the organic compound content in pounds per gallon, excluding water of each mold release agent employed; and
 - e. the total organic compound emission rate from all of the mold release agents $(c) \times (d) \div 2000$, in tons per month.
 - f. the total volume of acetylene burned in this emission unit.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day photochemically reactive mold release agent was used. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the deviation occurs.

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

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, propane, and/or acetylene was burned in this emissions unit as fuel. Each report shall be submitted within 30 days after the deviation occurs.

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

3. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day photochemically reactive mold release agent was used;
 - b. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - c. an identification of all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - d. describe any corrective actions taken to eliminate the visible fugitive particulate emissions.

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

4. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

5% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3).

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

1.b Emission Limitation:

2.64 pounds per hour CO emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the CO emission factor from Table 1.4-1 of AP-42 Section 1.4 dated 7/1998 (84 lb/mmscf) by the maximum natural gas firing rate of 2,865 ft³/hr. Add to this the product of the CO emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (33,500 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E -5 ton C/hr).

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.c Emission Limitation:

11.56 tons per year CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly CO limit constitutes compliance with the annual CO limit.

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

1.d Emission Limitation:

0.18 pound per hour PE

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PE emission factor from Table 1.5-1 of AP-42 Section 1.4 dated 7/1998 for a maximum propane sulfur concentration of 123 ppm (0.00437 lb/mmBtu) by the maximum propane firing rate (2.92 mmBtu/hr). Add to this the product of the PE emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (2,300 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E -5 ton C/hr).

If required, the permittee shall demonstrate compliance using Method 5 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

0.79 ton per year PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limit constitutes compliance with the annual particulate emission limit.

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

1.f Emission Limitation:

0.19 pound per hour PM10

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PM10 emission factor from Table 1.4-2 of AP-42 Section 1.4 dated 7/1998 (7.6 lb/mmscf) by the maximum natural gas firing rate of 2,865 ft³/hr. Add to this the product of the PE (assume all PE is PM10) emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (2,300 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E -5 ton C/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.g Emission Limitation:

0.83 ton per year PM10

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly particulate emission limit constitutes compliance with the annual particulate emission limit.

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

1.h Emission Limitation:

0.46 pound per hour NOx emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 NOx emission factor from Table 1.5-1 dated 10/1996 (0.153 lb/mmBtu) by the maximum propane firing rate of 2.92 mmBtu/hr. Multiply the NOx permittee supplied emission factor of (130 lb/mmscf) by the maximum acetylene firing rate of 45 ft³/hr and the ratio of the heating value of acetylene to natural gas (1,470 Btu/scf / 1,020 Btu/scf), and add to this the NOx emissions from propane combustion.

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.i Emission Limitation:

2.02 tons per year NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly NO_x limit constitutes compliance with the annual NO_x limit.

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

1.j Emission Limitation:

0.023 pound per hour SO₂ emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the SO₂ emission factor from Table 1.5-1 of AP-42 Section 1.4 dated 7/1998 for a maximum propane sulfur concentration of 123 ppm (0.0078 lb/mmBtu) by the maximum propane firing rate (2.92 mmBtu/hr).

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 6C of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.k Emission Limitation:

0.1 ton per year SO₂ emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual SO₂ emission limitation.

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

1.l Emission Limitation:

0.87 pound per hour VOC emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the VOC emission factor from Table 1.4-2 of AP-42 Section 1.4 dated 7/1998 (5.5 lb/mmscf) by the maximum natural gas firing rate of 2,865 ft³/hr. Add to this the product of the VOC emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (11,500 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E -5 ton C/hr). Add to this the maximum application rate of mold release agent 0.027 lb/hr (assuming a worst case VOC content of 100%).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 25 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.m Emission Limitation:

3.81 tons per year VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds/ton. Compliance with the hourly VOC emissions limit constitutes compliance with the annual limit.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line G-4 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: D-1 Forming line (F020)
Activity Description: Glass forming line D-1 and annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-1 and annealing Lehr with no controls	OAC rule 3745-31-05(A)(3) established by PTI 04-1376 as issued 9/30/2004	emissions of carbon monoxide (CO) shall not exceed 2.75 pounds per hour and 12.0 tons per year; emissions of nitrogen oxides (NOx) shall not exceed 0.66 pound per hour and 2.9 tons per year; particulate emissions (PE) shall not exceed 0.18 pound per hour and 0.79 ton per year; emissions of particulate matter less than 10 micron in diameter (PM10) shall not exceed 0.20 pound per hour and 0.86 ton per year; emissions of sulfur dioxide (SO2) shall not exceed 0.033 pound per hour and 0.14 ton per year; emissions of volatile organic compounds (VOC) shall not exceed 0.87 pound per hour and 3.8 tons per rolling, 12-month period; and see sections A.I.2.a and 2.b
	OAC rule 3745-17-07(B)(1)	see Section A.I.2.c
	OAC rule 3745-17-08(B), (B)(3)	see Section A.I.2.c
	OAC rule 3745-18-06(E)(2)	see Section A.I.2.c
	OAC rule 3745-21-07(G)(9)(f)	exemption for the use of non-photochemically reactive materials
	OAC rule 3745-21-08(B)	see Section A.I.2.d

2. Additional Terms and Conditions

- Visible particulate emissions shall not exceed 5% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.

2. Additional Terms and Conditions (continued)

- 2.b** The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 04-01376. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

II. Operational Restrictions

1. The permittee shall burn only acetylene, natural gas and/or propane as fuel in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]
2. The use of photochemically reactive mold release agent in this emissions unit is prohibited.
[Authority for term: OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than acetylene, natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[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 fugitive particulate emissions 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:
- the location and color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check by the permittee or an Ohio EPA inspector indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

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

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall collect and record the following information each month for this emissions unit.
 - a. the company identification of each mold release agent employed;
 - b. whether or not the mold release agent is a photochemically reactive material as defined under OAC rule 3745-21-01(C)(5);
 - c. the number of gallons (or quantity), minus water, of each mold release agent employed;
 - d. the organic compound content in pounds per gallon, excluding water of each mold release agent employed; and
 - e. the total organic compound emission rate from all of the mold release agents (c) x (d), in tons per month.
 - f. the total volume of acetylene burned in this emission unit.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day photochemically reactive mold release agent was used. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the deviation occurs.

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

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, propane, and/or acetylene was burned in this emissions unit as fuel. Each report shall be submitted within 30 days after the deviation occurs.

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

3. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. an identification of each day photochemically reactive mold release agent was used;
 - b. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - c. an identification of all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - d. describe any corrective actions taken to eliminate the visible fugitive particulate emissions.

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

4. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

5% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

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

1.b Emission Limitation:

2.75 pound per hour CO emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the CO emission factor from Table 1.4-1 of AP-42 Section 1.4 dated 7/1998 (84 lb/mmscf) by the maximum natural gas firing rate of 4,179 ft³/hr. Add to this the product of the CO emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (33,500 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E-5 ton C/hr).

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 10 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.c Emission Limitation:

12.0 tons per year CO emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the hourly CO limit constitutes compliance with the annual CO limit.

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

1.d Emission Limitation:

0.18 pound per hour PE

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PE emission factor from Table 1.5-1 of AP-42 Section 1.4 dated 7/1998 for a maximum propane sulfur concentration of 123 ppm (0.00437 lb/mmBtu) by the maximum propane firing rate (4.263 mmBtu/hr). Add to this the product of the PE emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (2,300 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E-5 ton C/hr).

If required, the permittee shall demonstrate compliance using Method 5 of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

0.79 ton per year PE

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the hourly particulate emission limit constitutes compliance with the annual particulate emission limit.

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

1.f Emission Limitation:

0.20 pound per hour PM10

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PM10 emission factor from Table 1.4-2 of AP-42 Section 1.4 dated 7/1998 (7.6 lb/mmscf) by the maximum natural gas firing rate of 4,179 ft³/hr. Add to this the product of the PE (assume all PE is PM10) emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (2,300 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E-5 ton C/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.g Emission Limitation:

0.86 ton per year PM10

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the hourly particulate emission limit constitutes compliance with the annual particulate emission limit.

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

1.h Emission Limitation:

0.66 pounds per hour NOx emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 NOx emission factor from Table 1.5-1 dated 10/1996 (0.153 lb/mmBtu) by the maximum propane firing rate of 4.263 mmBtu/hr. Multiply the NOx permittee supplied emission factor of (130 lb/mmscf) by the maximum acetylene firing rate of 45 ft³/hr and the ratio of the heating value of acetylene to natural gas (1,470 Btu/scf ÷ 1,020 Btu/scf), and add to this the NOx emissions from propane combustion.

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.i Emission Limitation:

2.9 tons per year NO_x emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the hourly NO_x limit constitutes compliance with the annual NO_x limit.

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

1.j Emission Limitation:

0.033 pound per hour SO₂ emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the SO₂ emission factor from Table 1.5-1 of AP-42 Section 1.4 dated 7/1998 for a maximum propane sulfur concentration of 123 ppm (0.0078 lb/mmBtu) by the maximum propane firing rate (4.263 mmBtu/hr).

If required, the permittee shall demonstrate compliance using Methods 1 through 4 and 6C of 40 CFR part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

1.k Emission Limitation:

0.14 ton year SO₂ emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the hourly emission limitation constitutes compliance with the annual SO₂ emission limitation.

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

1.l Emission Limitation:

0.87 pounds per hour VOC emissions

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the VOC emission factor from Table 1.4-2 of AP-42 Section 1.4 dated 7/1998 (5.5 lb/mmscf) by the maximum natural gas firing rate of 4,179 ft³/hr. Add to this the product of the VOC emission factor from AP-42 Section 5.3 for Channel Black Production dated 4/1977 (11,500 lbs/ton) and the estimated yield of carbon product produced based on 5% yield from 0.066 mmBtu/hr of acetylene combusted (7.17E-5 ton C/hr). Add to this the maximum application rate of mold release agent 0.027 lb/hr (assuming a worst case VOC content of 100%).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 25 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods can be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.m Emission Limitation:

3.8 tons per year VOC emissions

Applicable Compliance Method:

Annual allowable emissions are based on the hourly allowable emission rate multiplied by 8760 hours per year and divided by 2000 pounds per ton. Compliance with the hourly VOC emissions limit constitutes compliance with the annual limit.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass forming line D-1 and annealing lehr with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: B - Furnace (P003)
Activity Description: Glass melting furnace - 'B'

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "B" with no controls	OAC rule 3745-17-07(A)(1)	see Section A.1.2.a below
	OAC rule 3745-17-11(B)(1)	particulate emissions (PE) shall not exceed 8.8 pounds per hour
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide (SO ₂) shall not exceed 64.4 pounds per hour

2. Additional Terms and Conditions

- 2.a Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
 - a. visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - b. shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - c. the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.b This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping 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.

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

2. The permittee shall maintain daily records of the following:
 - a. the tons of glass produced in this emissions unit, and
 - b. the hours of operation of this emissions unit.

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

IV. Reporting Requirements

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

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

2. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission 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)]

V. Testing Requirements (continued)

1.b Emission Limitation:

8.8 pounds per hour of particulates

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 5 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-17-03(B)(10).

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

1.c Emission Limitation:

64.4 pounds per hour of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 6 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-18-04(E)(1).

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

2. Within 180 days of the issuance of this permit to operate, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates and sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The test(s) shall be conducted while combusting natural gas.
- d. The permittee shall maintain records for this emissions unit of the total annual hours of operation on the standby fuel. If the annual usage of fuel oil in this emissions unit exceeds 500 hours, the permittee shall immediately report the exceedance and at the earliest possible date perform additional test(s) while combusting fuel oil.
- e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements (continued)

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).

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.

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)]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "B" with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: D - Furnace (P005)
Activity Description: Glass melting furnace - 'D'

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "D" with no controls	OAC rule 3745-17-07(A)(1)	see Section A.1.2.a
	OAC rule 3745-17-11(B)(1)	particulate emissions (PE) shall not exceed 8.4 pounds per hour
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide (SO ₂) shall not exceed 61.5 pounds per hour

2. Additional Terms and Conditions

- 2.a Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
 - a. visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - b. shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - c. the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.b This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping 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.

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

2. The permittee shall maintain daily records of the following:
 - a. the tons of glass produced in this emissions unit, and
 - b. the hours of operation of this emissions unit.

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

IV. Reporting Requirements

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

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

2. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission 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)]

V. Testing Requirements (continued)

1.b Emission Limitation:

8.4 pounds per hour of particulates

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 5 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-17-03(B)(10).

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

1.c Emission Limitation:

61.5 pounds per hour of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 6 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-18-04(E)(1).

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

2. Within 180 days of the issuance of this permit to operate, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates and sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The test(s) shall be conducted while combusting natural gas.
- d. The permittee shall maintain records for this emissions unit of the total annual hours of operation on the standby fuel. If the annual usage of fuel oil in this emissions unit exceeds 500 hours, the permittee shall immediately report the exceedance and perform additional test(s) while combusting fuel oil, at the earliest possible date.
- e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements (continued)

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).

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.

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)]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "B" with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: E - Furnace (P006)
Activity Description: Glass melting furnace - 'E'

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "E" with no controls	OAC rule 3745-17-07(A)(1)	see Section A.1.2.a
	OAC rule 3745-17-11(B)(1)	particulate emissions (PE) shall not exceed 8.4 pounds per hour
	OAC rule 3745-18-06(E)(2)	emissions of sulfur dioxide (SO ₂) shall not exceed 61.5 pounds per hour

2. Additional Terms and Conditions

- 2.a Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
 - a. visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - b. shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - c. the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.
- 2.b This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping 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.

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

2. The permittee shall maintain daily records of the following:
 - a. the tons of glass produced in this emissions unit, and
 - b. the hours of operation of this emissions unit.

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

IV. Reporting Requirements

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

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

2. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission 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)]

V. Testing Requirements (continued)

1.b Emission Limitation:

8.4 pounds per hour of particulates

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 5 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-17-03(B)(10).

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

1.c Emission Limitation:

61.5 pounds per hour of sulfur dioxide

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

If required, the permittee shall perform emission testing in accordance with Method 6 of 40 CFR Part 60 Subpart A, and the procedures of OAC rule 3745-18-04(E)(1).

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

2. Within 180 days of the issuance of this permit to operate, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates and sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The test(s) shall be conducted while combusting natural gas.
- d. The permittee shall maintain records for this emissions unit of the total annual hours of operation on the standby fuel. If the annual usage of fuel oil in this emissions unit exceeds 500 hours, the permittee shall immediately report the exceedance and perform additional test(s) while combusting fuel oil, at the earliest possible date.
- e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements (continued)

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).

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.

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)]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "B" with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: G - Furnace (P007)
Activity Description: Glass melting furnace - 'G'

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P007 - G-Furnace (27-G)		
170 tons/day glass melting furnace, natural gas fired at a maximum rate of 33,583 scf/hr, with electric boost and no control	OAC rule 3745-31-05(A)(3) as established in PTI 04-01414 as issued August 30, 2005	0.20 pound of carbon monoxide (CO) per hour; 46.3 pounds of nitrogen oxides (NOx) per hour; 5.81 pounds of particulate emissions (PE) per hour; 6.30 pounds of particulate matter less than 10 microns in diameter (PM10) per hour; 20.8 pounds of sulfur dioxide emissions (SO2) per hour; 0.35 pound of volatile organic compound emissions (VOC) per hour; and see section A.I.2.a.
	OAC rule 3745-31-05(C)	0.88 ton per rolling, 12-month period of CO; 182.5 tons per rolling, 12-month period of NOx; 22.9 tons per rolling, 12-month period of PE 24.8 tons per rolling, 12-month period of PM10; 82.0 tons per rolling, 12-month period of SO2; and 1.53 tons per rolling, 12-month period of VOC.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.b.
	OAC rule 3745-17-11(A)(2)	See section A.I.2.c.
	OAC rule 3745-18-06(E)(2)	See section A.I.2.c.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.d.

Operations, Property, and/or Equipment
 Refiner - natural gas fired at a maximum rate of 3,573 scf/hr with low-NOx burners

Applicable Rules/Requirements
 OAC rule 3745-31-05(A)(3) as established in PTI 04-01414 as issued August 30, 2005

Applicable Emissions Limitations/Control Measures
 See section A.1.2.c.
 0.29 pound per hour and 0.27 tons per rolling 12-month period of CO emissions;
 0.17 pound per hour and 0.75 ton per rolling 12-month period of NOx emissions;
 0.01 pound per hour and 0.03 ton per rolling 12-month period of PE;
 0.03 pound per hour and 0.12 ton per rolling 12-month period of PM10 emissions;
 0.01 pound per hour and 0.01 ton per rolling 12-month period of SO2;
 0.02 pound per hour and 0.08 ton per rolling 12-month period of VOC emissions; and
 see sections A.1.2.f and g.

OAC rule 3745-17-07(B)(1)

See section A.1.2.c.

OAC rule 3745-17-08(B)

See sections A.1.2.h and j.

OAC rule 3745-18-06(E)(2)

See section A.1.2.c.

OAC rule 3745-21-07(B)

See section A.1.2.d.

OAC rule 3745-21-08(B)

See section A.1.2.e.

Forehearths - natural gas fired with standard burners (17,666 scf/hr) and low-NOx burners (5,148 scf/hr)

OAC rule 3745-31-05(A)(3) as established in PTI 04-01414 as issued August 30, 2005

1.92 pounds per hour and 8.41 tons per rolling 12-month period of CO emissions;
 1.41 pounds per hour and 6.18 tons per rolling 12-month period of NOx emissions;
 0.04 pound per hour and 0.20 ton per rolling 12-month period of PE;
 0.18 pound per hour and 0.79 ton per rolling 12-month period of PM10 emissions;
 0.02 pound per hour and 0.09 ton per rolling 12-month period of SO2 emissions;
 0.13 pound per hour and 0.57 ton per rolling 12-month period of VOC emissions; and
 see sections A.1.2.f and g.

OAC rule 3745-17-07(B)(1)

See section A.1.2.c.

OAC rule 3745-17-08(B)

See sections A.1.2.h and j.

OAC rule 3745-18-06(E)(2)

See section A.1.2.c.

OAC rule 3745-21-07(B)

See section A.1.2.d.

OAC rule 3745-21-08(B)

See section A.1.2.e.

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
- 2.b** Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, unless otherwise specified by the rule.
- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d** The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) by complying with the best available technology requirements established in permit to install 04-01414.
- 2.e** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 04-01414. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.f** The permittee shall allow no visible emissions of fugitive dust from any enclosure (building) surrounding this emissions unit. Visible emissions of fugitive dust through roof-mounted ventilator(s) shall not exceed 5% opacity as a 3-minute average.
- 2.g** The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions source at the maximum firing rate for natural gas. Therefore, it is not necessary to develop monitoring, recordkeeping and/or reporting requirements to ensure compliance with these limitations.
- 2.h** Compliance with this rule is achieved through the exclusive combustion of natural gas.

II. Operational Restrictions

- 1.** The permittee shall burn only natural gas as fuel in this emissions unit.

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

II. Operational Restrictions (continued)

2. The rate of glass pull from this emissions unit shall not exceed 55,800 tons per rolling, 12-month period, based upon a rolling, 12-month summation of the monthly pull rates.

To ensure enforceability during the first 12 calendar months of operation, the permittee shall not exceed the glass pull rates specified in the following table:

Month(s) - Maximum Allowable Cumulative Glass Pull Rate, tons

1	- 5,100
1-2	- 10,200
1-3	- 15,300
1-4	- 20,400
1-5	- 25,500
1-6	- 30,600
1-7	- 35,700
1-8	- 40,800
1-9	- 45,900
1-10	- 51,000
1-11	- 55,800
1-12	- 55,800

After the first 12 calendar months of operation, compliance with annual glass pull rate limitation shall be based upon a rolling, 12-month summation of the monthly glass pull rates.

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

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type, quantity, and heating value in Btu/dscf of the fuel burned.

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

2. The permittee shall maintain daily records of:
 - a. the glass pull rate, in tons/day; and
 - b. the hours of operation of this emissions unit.

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

3. The permittee shall maintain monthly records of the following information:
 - a. the glass pull rate for each month, in tons; and
 - b. the rolling, 12-month summation of the glass pull rates.

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

III. Monitoring and/or Record Keeping Requirements (continued)

4. 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 G-furnace stack. 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:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - 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.

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

5. 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 roof ventilator 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:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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

6. The permittee shall perform daily checks, when the emissions unit is in operation, for any visible fugitive particulate emissions from building egress points (doors, windows). 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:
- the color of the emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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

7. For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Toledo Division of Environmental Services within 30 days after the deviation occurs.

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month glass pull rate limitation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

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

3. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the G-furnace stack, the roof ventilator serving this emissions unit or building egress points;
 - b. describe any corrective actions taken to minimize or eliminate the visible particulate emissions from the melting furnace stack;
 - c. describe any corrective actions taken to eliminate the visible particulate emissions from the roof ventilator serving this emissions unit; and
 - d. describe any corrective actions taken to eliminate the visible fugitive particulate emissions from building egress points (doors, windows).

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:

20% opacity as a 6-minute average from the melting furnace stack

Applicable Compliance Method:

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

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

V. Testing Requirements (continued)

1.b Emission Limitation:

0.20 pound per hour CO emissions from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (0.028 pound of CO emissions per ton of glass pulled, performed August 17, 2006) by the maximum hourly throughput rate (170 tons per day divided by 24 hours per day).

If required, the permittee shall perform emission testing in accordance with the methods and procedures of Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA.

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

1.c Emission Limitation:

0.88 ton per rolling, 12-month period of CO from the melting furnace

Applicable Compliance Method:

Annual emissions are based on the allowable hourly emission rate (0.20 lb/hr) multiplied by the maximum annual hours of operation (8,760 hrs/yr) and divided by 2000 lbs/ton. Therefore if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

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

1.d Emission Limitation:

46.3 pounds per hour NOx emissions from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (6.11 pounds of NOx emissions per ton of glass pulled as performed August 17, 2006) by the maximum hourly throughput rate (170 tons per day divided by 24 hours per day).

If required, the permittee shall perform emission testing in accordance with the methods and procedures of Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA.

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

1.e Emission Limitation:

182.5 tons per rolling, 12-month period of NOx from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (6.11 pounds of NOx emissions per ton of glass pulled, performed August 17, 2006) by the maximum annual throughput rate (55,800 tons per year) and divide by 2,000 pounds per ton.

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

V. Testing Requirements (continued)

1.f Emission Limitation:

6.30 pounds per hour PM10 emissions from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (0.64 pound of PM10 emissions per ton of glass pulled, performed August 17, 2006) by the maximum hourly throughput rate (170 tons per day divided by 24 hours per day).

If required, compliance shall be demonstrated based upon the procedures specified in Methods 201 and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

1.g Emission Limitation:

24.8 tons per rolling, 12-month period of PM10 from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (0.64 pound of PM10 emissions per ton of glass pulled, performed August 17, 2006) by the maximum annual throughput rate (55,800 tons per year) and divide by 2,000 pounds per ton.

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

1.h Emission Limitation:

5.81 pounds per hour PE emissions from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (0.57 pound of PE emissions per ton of glass pulled, performed August 17, 2006) by the maximum hourly throughput rate (170 tons per day divided by 24 hours per day).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.i Emission Limitation:

22.9 tons per rolling, 12-month period of PE from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (0.57 pound of PE emissions per ton of glass pulled, performed August 17, 2006) by the maximum annual throughput rate (55,800 tons per year) and divide by 2,000 pounds per ton.

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

1.j Emission Limitation:

20.8 pounds per hour SO₂ emissions from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (2.47 pounds of SO₂ emissions per ton of glass pulled, performed August 17, 2006) by the maximum hourly throughput rate (170 tons per day divided by 24 hours per day).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6C of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA.

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

1.k Emission Limitation:

82.0 tons per rolling, 12-month period of SO₂ from the melting furnace

Applicable Compliance Method:

Compliance shall be determined through calculations based on the emission factor demonstrated during the most recent stack test, as follows: multiply the stack test emission factor (2.47 pounds of SO₂ emissions per ton of glass pulled, performed August 17, 2006) by the maximum annual throughput rate (55,800 tons per year) and divide by 2,000 pounds per ton.

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

1.l Emission Limitation:

0.35 pound per hour VOC emissions from the melting furnace

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25, or 25A of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Use of Method 25 or 25A is to be selected based on the results of pre-survey stack sampling and U.S. EPA guidance documents. Alternative U.S. EPA approved test methods may be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

1.m Emission Limitation:

1.53 tons per rolling, 12-month period of VOC from the melting furnace

Applicable Compliance Method:

This emission limitation was developed by multiplying the VOC hourly emission limitation (0.35 pound per hour) by the maximum annual operating rate (8760 hrs/yr) and divided by 2000 pounds per ton. Therefore, if compliance is shown by with the hourly emission limitation, compliance is also shown with the annual emission limitation.

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

1.n Emission Limitation:

Fugitive emissions through roof ventilator(s) shall not exceed 5% opacity as a 3-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3).

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

1.o Emission Limitation:

0.29 pound per hour CO emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the CO emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (84 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate of 3,375 scf/hr

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

1.p Emission Limitation:

1.27 tons per rolling, 12-month period of CO from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly CO emission limitation (0.29 lb/hr) by the maximum annual operating hours (8760 hrs/hr) and dividing by 2000 pounds per ton. Therefore is compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.q Emission Limitation:

0.17 pound per hour NO_x emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the NO_x emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (50 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate of 3,375 scf/hr

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

1.r Emission Limitation:

0.75 ton per rolling, 12-month period of NO_x from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly NO_x emission limitation (0.17 lb/hr) by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the hourly emission limitation, compliance is also shown with annual emission limitation.

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

1.s Emission Limitation:

0.03 pound per hour PM₁₀ emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the NO_x emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (7.6 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (3,375 scf/hr).

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

1.t Emission Limitation:

0.12 ton per rolling, 12-month period of PM₁₀ from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the PM₁₀ emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (7.6 lbs/mmscf of natural gas burned), by the maximum natural gas firing rate (3,375 scf/hr), by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton.

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

V. Testing Requirements (continued)

1.u Emission Limitation:

0.01 pound per hour PE emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PE emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (1.9 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (3,375 scf/hr).

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

1.v Emission Limitation:

0.03 ton per rolling, 12-month period of PE from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the PE emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (1.9 lbs/mmscf of natural gas burned), by the maximum natural gas firing rate (3,375 scf/hr), by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the hourly emission limitation, compliance is also shown with annual emission limitation.

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

1.w Emission Limitation:

0.01 pound per hour SO₂ emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the SO₂ emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (0.6 lb/mmscf of natural gas burned) by the maximum natural gas firing rate (3,375 scf/hr).

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

1.x Emission Limitation:

0.01 ton per rolling, 12-month period of SO₂ from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the SO₂ emission factor from AP-42, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (0.6 lb/mmscf of natural gas burned), by the maximum natural gas firing rate (3,375 scf/hr), by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton.

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

V. Testing Requirements (continued)

1.y Emission Limitation:

0.02 pound per hour VOC emissions from the refiner

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the VOC emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (5.5 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (3,375 scf/hr).

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

1.z Emission Limitation:

0.08 ton per rolling, 12-month period of VOC from the refiner

Applicable Compliance Method:

This emission limitation was developed by multiplying the VOC emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (5.5 lbs/mmscf of natural gas burned), by the maximum natural gas firing rate (3.375 scf/hr), by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton.

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

1.za Emission Limitation:

1.92 pounds per hour CO emissions from the forehearths

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the CO emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (84 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (0.022814 mmscf/hr).

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

1.zb Emission Limitation:

8.41 tons per rolling, 12-month period of CO from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly CO emission limitation (1.92 lb/hr) by the maximum annual operating hours (8760 hrs/hr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown with the hourly emission limitation, compliance is also shown with the annual emission limitation.

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

V. Testing Requirements (continued)

1.zc Emission Limitation:

1.41 pounds per hour NO_x emissions from the forehearths

Applicable Compliance Method:

This emissions unit includes firing natural gas with standard burners (maximum firing rate of 17,666 scf/hr) and low NO_x burners (maximum firing rate of 5,148 scf/hr). Compliance shall be demonstrated by multiplying the low NO_x emission factor from AP-42 emission factor, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (50 lbs/mmscf of natural gas burned) by the maximum natural gas low NO_x burner firing rate (0.017666 mmscf/hr) and adding that total to the product of the maximum standard burner firing rate (0.005148 mmscf/hr) multiplied by the AP-42 emission factor for a standard natural gas fired burner (100 lbs/mmscf of natural gas burned).

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

1.zd Emission Limitation:

6.18 tons per rolling, 12-month period of NO_x from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly NO_x emission limitation (1.41 lb/hr) by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the short term emission limitation, compliance is also shown with annual emission limitation.

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

1.ze Emission Limitation:

0.18 pound per hour PM₁₀ emissions from the forehearths

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PM₁₀ emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (7.6 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (0.022814 mmscf/hr).

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

1.zf Emission Limitation:

0.79 ton per rolling, 12-month period of PM₁₀ from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly PM₁₀ emission limitation (0.18 lb/hr) by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the short term emission limitation, compliance is also shown with annual emission limitation.

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

V. Testing Requirements (continued)

1.zg Emission Limitation:

0.04 pound per hour PE emissions from the forehearths

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the PE emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (1.9 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (0.022814 mmscf/hr).

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

1.zh Emission Limitation:

0.20 ton per rolling, 12-month period of PE from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly PE emission limitation (0.04 lb/hr) by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the short term emission limitation, compliance is also shown with annual emission limitation.

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

1.zi Emission Limitation:

0.02 pound per hour SO₂ emissions from the forehearths

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the SO₂ emission factor from AP-42 emission factor, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (0.6 lb/mmscf of natural gas burned) by the maximum natural gas firing rate (0.022814 mmscf/hr).

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

1.zj Emission Limitation:

0.09 ton per rolling, 12-month period of SO₂ from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly SO₂ emission limitation (0.002 lb/hr) by the maximum annual operating hours (8760 hrs/yr) and dividing by 2000 pounds per ton. Therefore, if compliance is shown by the short term emission limitation, compliance is also shown with annual emission limitation.

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

V. Testing Requirements (continued)

1.zk Emission Limitation:

0.13 pound per hour VOC emissions from the forehearths

Applicable Compliance Method:

Compliance shall be demonstrated through calculations performed as follows: multiply the VOC emission factor from AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, dated 7/98 (5.5 lbs/mmscf of natural gas burned) by the maximum natural gas firing rate (0.022814 mmscf/hr).

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

1.zl Emission Limitation:

0.57 ton per rolling, 12-month period of VOC from the forehearths

Applicable Compliance Method:

This emission limitation was developed by multiplying the hourly VOC emission limitation (0.13 lb/hr) by the maximum annual operating hours (8760 hrs/yr). Therefore, if compliance is shown by the short term emission limitation, compliance is also shown with annual emission limitation.

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

1.zm Emission Limitation:

No visible emissions from any enclosure (building) surrounding this emissions unit

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with Method 22 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(4).

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

2. Emission testing requirements

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

- a. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for NO_x and SO₂ from the glass melting furnace stack.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

NO_x: Methods 1-4 and 7E of 40 CFR Part 60, Appendix A
SO₂: Methods 1-4 and 6C of 40 CFR Part 60, Appendix A.

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

V. Testing Requirements (continued)

d. During the testing, the permittee shall record the following operational parameters for each test run: glass pull rate in tons/hr, the melting furnace natural gas firing rate in scf/hr, and the electric boost rate.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services's refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

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 Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "B" with no controls	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Slitters and notchers (P010)
Activity Description: Corrugated carton cutting

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3,250 pounds per hour corrugated cardboard carton cutting controlled by a cyclone dust collector	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(1)	see Section A.1.2.a particulate emissions (PE) shall not exceed 5.5 pounds per hour

2. Additional Terms and Conditions

- 2.a Except as provided in OAC rule 3745-17-07(A)(3), visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except:
 - a. visible particulate emissions may exceed 20 percent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes; but
 - b. shall not exceed 60 percent opacity, as a six-minute average, at any time; and
 - c. the presence of uncombined water shall not be deemed a violation for failure of stack emissions meeting this requirement.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping 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 eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

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

- 1.b Emission Limitation:

5.5 pounds per hour of particulates

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3,250 pounds per hour corrugated cardboard carton cutting controlled by a cyclone dust collector	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Decorating line #1 (P011)
Activity Description: Decorating and firing of glassware

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Deco Lehr #1 for firing of decorating line #1 glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-21-07(G)(1)	emissions of organic compounds from liquid organic materials shall not exceed 3 pounds per hour and 15 pounds per day; and see Section A.1.2.a

2. Additional Terms and Conditions

- 2.a The provisions of OAC rule 3745-21-07(G)(1) shall apply on any day during which the permittee utilizes any liquid organic material or substance containing liquid organic material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. On any day during which the permittee utilizes any liquid organic material or substance containing liquid organic material, the permittee shall collect and record the following information:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;
 - d. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day;
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 pounds per hour, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 pounds per day, and the organic compound emissions for each such day.

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

2. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

3 pounds per hour and 15 pounds per day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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

Facility Name: **Libbey Glass Inc.**
Facility ID: **04-48-01-0066**
Emissions Unit: **Decorating line #1 (P011)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Deco lehr #1 for firing of decorating line #1 glassware, <10 MMBtu direct gas fired with no control	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Decorating line #2 (P012)

Activity Description: Decorating and firing of glassware

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Deco Lehr #2 for firing of decorating line #2 glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-21-07(G)(1)	emissions of organic compounds from liquid organic materials shall not exceed 3 pounds per hour and 15 pounds per day; and see Section A.1.2.a

2. Additional Terms and Conditions

- 2.a The provisions of OAC rule 3745-21-07(G)(1) shall apply on any day during which the permittee utilizes any liquid organic material or substance containing liquid organic material.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. On any day during which the permittee utilizes any liquid organic material or substance containing liquid organic material, the permittee shall collect and record the following information:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;
 - d. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day;
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly organic compound emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C)(5).]

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.

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

2. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

3 pounds per hour and 15 pounds per day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of Section A.III. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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

Facility Name: **Libbey Glass Inc.**
Facility ID: **04-48-01-0066**
Emissions Unit: **Decorating line #2 (P012)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Deco lehr #2 for firing of decorating line #2 glassware, <10 MMBtu direct gas fired with no control	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mold paste room (P021)
Activity Description: Molds coated with cork dust

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
molds coated with cork dust with no control	OAC rule 3745-17-07(A)(1)	see Section A.1.2.a
	OAC rule 3745-17-11(B)(1)	particulate emissions shall not exceed 0.82 pound per hour

2. Additional Terms and Conditions

- 2.a Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping 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 eliminate the visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).

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

- 1.b Emission Limitation:

0.82 pound per hour of particulates

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
molds coated with cork dust, with no control	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: F - Furnace (P022)
Activity Description: Glass melting furnace - 'F'

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "F" with particulate control by checker design: 75 tons per day glass melting furnace, natural gas fired with electric boost	OAC rule 3745-31-05(A)(3) established by PTI 04-1456 as issued 12/5/2006	emissions of carbon monoxide (CO) shall not exceed 0.75 pound per hour or 3.29 tons per year; emissions of nitrogen oxides (NOx) shall not exceed 28.0 pounds per hour or 123 tons per year; particulate emissions (PE) shall not exceed 38.5 tons per year; emissions of particulate matter 10 microns or less in diameter (PM10) shall not exceed 8.66 pounds per hour or 37.9 tons per year; emissions of sulfur dioxide (SO2) shall not exceed 21.0 pounds per hour or 92.0 tons per year; emissions of volatile organic compounds (VOC) shall not exceed 1.13 pounds per hour or 4.95 tons per year; and see Sections 2.a thru 2.c
	OAC rule 3745-17-07(A)(1)	see Section 2.d
	OAC rule 3745-17-11(B)(1)	emissions of PE shall not exceed 8.80 pounds per hour
	OAC rule 3745-18-06(E)(2)	see Section 2.e
	OAC rule 3745-21-07(B)	see Section 2.f
	OAC rule 3745-21-08(B)	see Section 2.g
	40 CFR Part 60, Subpart CC	exempt, see Section 2.h

2. Additional Terms and Conditions

- 2.a** The hourly and annual emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- 2.b** This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.
- 2.c** The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(1).
- 2.d** Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** No "capitol expenditure" was associated with the increase in the production rate of this emissions unit. Pursuant to 40 CFR 60.14(E)(2), an increase in the production rate of an existing facility shall not be considered a modification without a "capitol expenditure".

II. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements (continued)

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 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.

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

3. The permittee shall monitor and record each day during which #2 fuel oil is burned in this emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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

2. The permittee shall submit quarterly written reports that:

- a. a summary report a which identifies each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit;
- b. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- c. describe any corrective actions taken to minimize or eliminate the visible particulate emissions.

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

3. The quarterly deviation reports shall be submitted by by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3 calendar months. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that period. These reports shall be submitted to the Toledo Division of Environmental Services, 348 South Erie Street, Toledo, Ohio 43604.

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

4. On an annual basis, the permittee shall report the total number of days during which #2 fuel oil was fired in this emissions unit. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31 of each year and shall cover the previous 12-month period.

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission 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)]

1.b Emission Limitation:

0.75 pound of CO per hour.

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 15-2 dated 1/95, as follows: multiply the emission factor of 0.2 pound of CO emissions per ton of glass pulled by the maximum design rate of glass pull (3.125 tons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.c Emission Limitation:

3.29 tons of CO per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 0.75 pound of CO per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

1.d Emission Limitation:

28.0 pounds of NO_x per hour.

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 15-1 dated 1/95, as follows: multiply the emission factor of 8.5 pound of NO_x emissions per ton of glass pulled by the maximum design rate of glass pull (3.125 tons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 7 or 7E of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

V. Testing Requirements (continued)

1.e Emission Limitation:

123 tons of NOx per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 28.0 pounds of NOx per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

1.f Emission Limitation:

8.80 pounds of PE per hour.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.g Emission Limitation:

38.5 tons of PE per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 8.80 pounds of PE per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

1.h Emission Limitation:

8.66 pounds of PM10 per hour.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

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

1.i Emission Limitation:

37.9 tons of PM10 per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 8.66 pounds of PM10 per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

V. Testing Requirements (continued)

1.j Emission Limitation:

21.0 pounds of SO₂ per hour.

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 15-1 dated 1/95, as follows: multiply the emission factor of 5.6 pound of SO₂ emissions per ton of glass pulled by the maximum design rate of glass pull (3.125 tons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 6 or 6C of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.k Emission Limitation:

92.0 tons of SO₂ per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 21.0 pounds of SO₂ per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

1.l Emission Limitation:

1.13 pounds of VOC per hour.

Applicable Compliance Method:

Compliance may be determined through calculations based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 15-2 dated 1/95, as follows: multiply the emission factor of 0.3 pound of VOC emissions per ton of glass pulled by the maximum design rate of glass pull (3.125 tons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 thru 4 and 25 or 25A of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

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

1.m Emission Limitation:

4.95 tons of VOC per year.

Applicable Compliance Method:

This emission limitation was established to reflect the potential to emit for this emissions unit. Compliance may be demonstrated through calculations performed as follows: multiply the short term emission rate of 1.13 pounds of VOC per hour by 8,760 hours per year and divide by 2,000 pounds per ton.

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

V. Testing Requirements (continued)

2.a Emission testing requirements

If required, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted approximately 6 months prior to permit renewal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for NO_x and SO₂ from the glass melting furnace stack.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

NO_x: Methods 1-4 and 7E of 40 CFR Part 60, Appendix A
SO₂: Methods 1-4 and 6C of 40 CFR Part 60, Appendix A.

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

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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).

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.

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)]

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
glass melting furnace "F" with control checker design	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Facility Name: **Libbey Glass Inc.**
Facility ID: **04-48-01-0066**

THIS IS THE LAST PAGE OF THE PERMIT

Statement of Basis For Title V Permit

Part I - General	
Company Name	Libbey Glass Inc.
Premise Number	0448010066
What makes this facility a Title V facility?	NOx, SO2 & PM10
Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	yes
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	no
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	<p>F005 - Permanently shut-down.</p> <p>F007 - Renamed emission unit to (F-2 Forming line).</p> <p>F008 - Renamed emission unit to (D-3 Forming line).</p> <p>F011 - Renamed emission unit to (D-2 Forming line).</p> <p>F014 - Renamed emission unit to (G-6 Forming line).</p> <p>F019 - Renamed emission unit to (G-4 Forming line). New emission unit installed 11/2004.</p> <p>F020 - Renamed emission unit to (D-1 Forming line). New emission unit installed 6/2005.</p> <p>K001 - De minimis, PTI 04-993 issued as a corrected copy 11/8/95, coating application restricted to spray cans or brush.</p> <p>N001 - Permanently shut-down.</p> <p>P002 - Permanently shut-down.</p> <p>P007 - G-furnace was modified 6/12/2006. Electric boost was added and increased furnace capacity to 170 tons glass/day.</p> <p>P013 - Permanently shut-down.</p> <p>P014 - Permanently shut-down.</p> <p>P015 - Permanently shut-down.</p> <p>P017 - Permanently shut-down.</p> <p>P022 - F-furnace was modified after 12/ 5/2006. Furnace "foot-print" was increased resulting in a new theoretical furnace capacity of 75 tons glass/day.</p> <p>P024 - Permanently shut-down.</p> <p>R001 - Permanently shut-down.</p> <p>T001 - Permanently shut-down.</p> <p>T002 - De minimis; 40 CFR Part 60 Subpart Kb no longer applies.</p> <p>T003 - De minimis; 40 CFR Part 60 Subpart Kb no longer applies.</p> <p>Z006 - Permanently shut-down</p> <p>Z007 - Permanently shut-down</p>

Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	<p>P007 - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1414 as issued 8/30/2005. G-furnace was modified 6/12/2006. Electric boost was added and increased furnace capacity to 170 tons glass/day.</p> <p>P022 - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1456 as issued 12/5/2006. The F-furnace was modified after 12/ 5/2006. The furnace "foot-print" was increased resulting in a new theoretical furnace capacity of 75 tons glass/day.</p>

Part II (State and Federally Enforceable Requirements)			
Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	

C

Instructions for Part II:

Each paragraph in Part II must be identified and the remainder of the table completed. If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. Whether the basis for the term and condition is the "SIP" or "Other," an explanation of each term and condition in Part II must be provided in the "Comments" section.

Part III (Requirements Within the State and Federally Enforceable Section)															
Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in the appropriate comment field or in a paragraph following the table for Part III.															
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	Comments
		SIP (3745-)	Other												
B003: 7.323 MMBtu/hr gas fired boilers with #2 fuel oil backup	insignificant	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - NA, PTE greater than 10#/d
		31-03 (A)(1)(a)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - permanent exemption for fossil fuel-fired boilers less than ten million British thermal units per hour burning only natural gas or distillate oil (with less than or equal to 0.5 per cent by weight sulfur).
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-31 of the Administrative Code.

B004, B005 & B006: 10.3 MMBtu/hr gas fired boilers with #2 fuel oil backup	20 percent opacity, as a 6-minute average, from the stack.	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - an inherently clean source combusting only natural gas or #2 fuel oil. OR - appropriate to an inherently clean source. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested
	0.020 lb particulate per million Btu input.	17-10 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - an inherently clean source combusting only natural gas or #2 fuel oil. OR - appropriate to create an inherently clean source. M, R & Rp - daily visible emission checks will be used to indicate a need for stack testing ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 5 testing will be requested
	0.52 lb of SO ₂ / per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. OAC 3745-18-06(C) allows 1.6 pounds of sulfur dioxide per million Btu input. OR - restrictions of S content in the fuel appropriate to meet the SO ₂ emissions limitation. M, R & Rp - fuel will be tested and certified compliant on an "as received " basis. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 5 testing will be requested
	0.01 lb VOC per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 revised AP-42 emissions factors. OAC 3745-21-07(B) requires the permittee to minimize VOC emissions by use of the latest available control techniques and operating practices in accordance with best current technology. The BAT determination of PTI 04-367 satisfies this requirement. OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 25 testing will be requested.

0.09 lb CO per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 emission values. OAC 3745-21-08(B) requiring the permittee to minimize CO emissions has been removed from the SIP OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 10 testing will be requested.
0.145 lb of NOx per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 emission values. OAC 3745-23-06(B) requiring the permittee to minimize NOx emissions has been removed from the SIP OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 7 testing will be requested.
The combined emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of CO, 18.4 tons of NOx, 1.23 tons of PE, 38.04 tons of sulfur dioxide or 0.74 ton of VOC as a rolling 12-month summation	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(C) synthetic minor limitation established by PTI 04-367, as issued on November 26, 1986. OR - oil quantity and quality restrictions to establish maximum emissions at 8760 hours per year of operation. M, R & Rp - monitoring of fuel oil quantity and quality. ET - compliance demonstrations based on a one-time worst case emissions calculation.

	NA	NSPS Dc	N	N	N	N	N	N	N	N	N	N	N	N	Basis - installed pursuant to PTI 04-367, as issued on November 26, 1986, these units were installed prior to the NSPS Dc applicability date of June 6, 1989.
F001: batch unloading facilities	insignificant deminimis	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AP-42, Table 11.15-1 gives PE as negligible. Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions < ten pounds per day of particulate matter. OAC rule 3745-17-07(B)(1), 20 percent opacity as a 3-minute average, and OAC rule 3745-17-08(B)(3) RACM will not apply.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.
F002: batch house	insignificant deminimis	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AP-42, Table 11.15-1 gives PE as negligible. Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions < ten pounds per day of particulate matter. OAC rule 3745-17-07(B)(1), 20 percent opacity as a 3-minute average, and OAC rule 3745-17-08(B)(3) RACM will not apply.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.
F003, F004, F007, F008, F009, F010, F011, F012, F013, F014 & F015: forming lines	20 percent opacity, as a 3-minute average	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR - the restrictions are appropriate to an inherently clean source. M, R & Rp - monitoring, recordkeeping and reporting for these sources is limited to the type of fuel as the small amount of particulate from the molding agent is released into the building and emissions are considered fugitive. ET - compliance demonstration based standard EPA test methods. Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions)

RACM	17-08 (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR - the restrictions are appropriate to an inherently clean source. M, R & Rp - RACM is no control. Monitoring, recordkeeping and reporting for these sources is limited to the type of fuel as the small amount of particulate from the molding agent is released into the building and emissions are considered fugitive. ET - compliance demonstration for adequate enclosure is the VE limitation specified above.
32 to 52 lbs SO ₂ /hr	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR, M, R & Rp - monitoring, recordkeeping and reporting for this source demonstrates the exclusive use of natural gas or propane fuels, with a resultant small quantity of SO ₂ emitted. High allowable emissions result from the SIP process weight rate rule based on the high production rate of the glass, which (after melting) is not a significant source of sulfur. No other source of sulfur dioxide is associated with these sources. ET - compliance demonstration based standard EPA test methods. An acceptable enclosure for testing would be difficult to fabricate.
8 lbs/hr & 40 lbs/day VOC	21-07 (G)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. The mold release agent contacts molten glass, it is not exposed to direct flame. Hence, OAC rule 3745- 21-07(G)(1) does not apply OR, M, R & Rp - Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). This term is included to allow for the potential use of a VOC containing mold release agent for "speciality" glass. ET - compliance demonstration based standard EPA test methods. An acceptable enclosure for testing would be difficult to fabricate.
VOC rule exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR, M, R & Rp - Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content. ET - testing is based on the definition of photochemically reactive material.

F018: roadways and parking lots	RACM, no visible emissions except for a period of time not to exceed 6 minutes paved, and 13 minutes unpaved	N	Y	N	Y	N	N	N	Y	N	Y	N	Y	N	<p>Basis - A historic source, this emissions unit is subject to SIP limitations only. The company submitted calculations based on AP-42, Section 13.2.1.3 dated 11/06, predictive factor equations for paved roads which yield: $E = [k(sL/2)^{0.65} (W/3)^{1.5} - C] [1 - (P/4N)] = 0.54 \text{ lb/VMT}$ where k = PM30 particle size multiplier = 0.82 g/vmt sL = road surface silt loading (g/m²) = 70 (=2.06 sqoz/yd) W = average vehicle weight (tons) = 2 C = exhaust brake and tire factor = 0.00047 g/vmt P = wet days = 130 N = 365 days The company extrapolated a controlled annual emissions potential of 4.4 tpy at 80,000 vmt/yr with an 80% effective control. M, R & Rp - appropriate terms and conditions have been added to the permit in compliance with OEPA template guidance. Daily visible emission checks will be used to demonstrate continuous compliance with VE for unpaved areas, weekly for paved areas.. ET - no annual emissions limitation was set for this source. Compliance would be indicated by Method 22.</p>
F019: forming line	2.64 lb/hr & 11.56 tpy CO; 0.46 lb/hr & 2.02 tpy NOx; 0.18 lb/hr & 0.79 tpy PE; 0.19 lb/hr & 0.83 tpy PM10; 0.023 lb/hr & 0.1 tpy SO2; 0.87 lb/hr & 3.81 tpy VOC; and VE shall not exceed 5% opacity as a 3-min ave.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1376 as issued 9/30/2004. OR - appropriate to an inherently clean source. M, R & Rp - the hourly and annual emission limitations represent full PTE; no M, R & Rp are required. The daily visible emission checks will be used to demonstrate continuous compliance with VE. ET - AP-42 emissions factors were used to establish these limitations; these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). Acetylene is used to "smoke" the molds.</p>
	NA	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Limitation: VE shall not exceed 20% opacity as a 3-min ave. Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.</p>

	NA	17-08 (B), (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: RACM Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.
	NA	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: AER = 30 P ^{0.67} where P = 1.49, AER = 39 lb/hr Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate clean fuel standard T&Cs.
	exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - The exclusive use of non-PCRM's removes applicability of OAC rule 3745-21-07(G)(2) limitations of 8 lb/hr & 40 lb/d VOC. OR, M, R, Rp & ET - appropriate standard T&Cs.
	NA	21-08 (B)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - satisfied by complying with BAT T&Cs. OR, M, R, Rp & ET - appropriate standard T&Cs.
F020: forming line	2.75 lb/hr & 12.0 tpy CO; 0.66 lb/hr & 2.9 tpy NOx; 0.18 lb/hr & 0.79 tpy PE; 0.20 lb/hr & 0.86 tpy PM10; 0.033 lb/hr & 0.14 tpy SO2; 0.87 lb/hr & 3.8 tpy VOC; and VE shall not exceed 5% opacity as a 3-min ave.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1407 as last modified 6/23/2005. OR - appropriate to an inherently clean source. M, R & Rp - the hourly and annual emission limitations represent full PTE; no M, R & Rp are required. The daily visible emission checks will be used to demonstrate continuous compliance with VE. ET - AP-42 emissions factors were used to establish these limitations; these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). Acetylene is used to "smoke" the molds.
	NA	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: VE shall not exceed 20% opacity as a 3-min ave. Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.
	NA	17-08 (B), (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: RACM Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.

	NA	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: $AER = 30 P^{0.67}$ where $P = 1.08$, $AER = 32$ lb/hr Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate clean fuel standard T&Cs.	
	exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - The exclusive use of non-PCRM's removes applicability of OAC rule 3745-21-07(G)(2) limitations of 8 lb/hr & 40 lb/d VOC. OR, M, R, Rp & ET - appropriate standard T&Cs.	
	NA	21-08 (B)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - satisfied by complying with BAT T&Cs. OR, M, R, Rp & ET - appropriate standard T&Cs.	
G001: gasoline dispensin g station	insignificant deminimis	21-09 (R)(4)(a)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - exemption from control requirements of OAC rule 3745-21-09(R)(1) thru (R)(3) for any gasoline dispensing facility which has an annual throughput of less than one hundred twenty thousand gallons of gasoline. (2004 = 5,470 gal, 2005 = 5,450 gal)	
		21-09 (R)(5)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - Any owner or operator of a gasoline dispensing facility that is exempted from the requirements of paragraphs (R)(1) to (R)(3) of this rule pursuant to paragraph (R)(4)(a) of this rule shall maintain records of the quantity of gasoline delivered to the facility during each calendar month. The records shall be maintained at the facility for a period of three years. The owner or operator shall notify the director if the annual gasoline throughput for any rolling twelve-month period is equal to or greater than one hundred twenty thousand gallons. The director shall be notified within forty-five days after the exceedance occurs.	
		15-05(D)	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - . Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions > ten pounds per day. The owner or operator of the source shall maintain records that show that emissions of any air contaminant from the source did not exceed ten pounds per day on each day the source emitted air contaminants, and that the source in any one year did not emit more than one ton of hazardous air pollutants. AP-42 Table 5.2-7 lists a VOC emissions factor of 24.2 lb/1000 gallon.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.

K001: mainten ance shop paint booth	deminimis	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - per permittee the usage of this emissions unit has been restricted to the application of coatings by brush or spray can. PTI 04-993 issued as a corrected copy 11/8/95, was withdrawn.
K002: decoratin g lehr #4	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
N001: incinerato r	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
P002: glass melting furnace	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
P003, P005 & P006: glass melting furnaces	20 percent opacity, as a 6-minute average	17- 07(A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	N	Basis - installed prior to 1974 and not an inherently clean source. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. OR - none, the emissions are stated at maximum calculated furnace capacity. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested

8.4 to 8.8 lbs PE/hr	17- 11(B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in prior to 1974 and not an inherently clean source. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to particulate. At process weight rates of 75, 70 & 70 tpd, the Table I allowable emissions rate were set at $E = 4.10 P^{0.67}$ where P is the process weight rate in tons per hour and E is the allowable emission rate in pounds of PE per hour = 8.8, 8.4 & 8.4, respectively. Figure II uncontrolled emissions are estimated utilizing an AP-42, Table 11.15-1, dated 1/95, emissions factor of 1.4#PE/ton of glass pulled. Uncontrolled emissions are estimated at 4.4, 4.1 & 4.1 #/hr < the 10#/hr applicability rate.</p> <p>OR - none, the emissions are stated at maximum calculated furnace capacity.</p> <p>M, R & Rp - production will be tracked for use with an emissions factor to assure compliance. At maximum production AP-42 calculated PTE is less than the allowable emissions, so no exceedances are anticipated. Daily visible emission checks will be used to determine a need for additional compliance demonstrations.</p> <p>ET - these emissions units have never been stack tested. One-time stack testing will be required to demonstrate compliance with these regulations. In compliance with Engineering Guide #16 if actual emissions for P003, P005 and P006 are <25TPY, retesting may not be required. If problems are indicated by M, R & Rp additional Method 5 testing will be requested.</p>
61.5 to 64.4 lbs SO ₂ /hr	18-0 6(E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in prior to 1974 with no OAC rule 3745-31 05 applicability. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a substantial contribution to SO2 emissions. $AER = 30 P^{0.67}$ Where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. For process weight rates of 75, 70 and 70 tons per hour and the allowable emission rate in pounds of SO2 per hour are 64.4, 61.5 & 61.5, respectively</p> <p>OR - none, the emissions are stated at maximum calculated furnace capacity.</p> <p>M, R & Rp - production will be tracked for use with an emissions factor to determine compliance.</p> <p>ET - these emissions units have never been stack tested. Since the reported annual emissions of SO2 for calendar year 2006 were greater each than 25 tpy stack testing will be required in compliance with Engineering Guide #16.</p>

P007 glass melting furnace	furnace stack emissions: 0.20 lb/hr CO; 46.3 lb/hr NOx; 5.81 lb/hr PE; 6.30 lb/hr PM10; 20.8 lb/hr SO2; and 0.35 lb/hr VOC.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1414 as issued 8/30/2005 and sent to the State (OEPA Central Office) for an Administrative Modification on 3/24/2008. This determination includes compliance with OAC rule 3745-17-07(A)(1).</p> <p>OR - restrictions on throughput and fuel type.</p> <p>M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing.</p> <p>ET - AP-42 emissions factors were used to establish these limitations and compliance has been demonstrated through stack testing performed 8/17/06 as follows:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="2">test results</th> <th>permit</th> </tr> <tr> <th></th> <th>#/T</th> <th>#/hr</th> <th>limitation</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0.03</td> <td>0.20</td> <td>0.20 lb/hr</td> </tr> <tr> <td>NOx</td> <td>6.11</td> <td>43.5</td> <td>46.3 lb/hr</td> </tr> <tr> <td>PE</td> <td>0.57</td> <td>4.08</td> <td>5.81 lb/hr</td> </tr> <tr> <td>PM10</td> <td>0.64</td> <td>4.55</td> <td>6.30 lb/hr</td> </tr> <tr> <td>SO2</td> <td>2.47</td> <td>17.6</td> <td>20.8 lb/hr</td> </tr> <tr> <td>VOC</td> <td colspan="2">not tested</td> <td>0.35 lb/hr</td> </tr> <tr> <td>Opacity</td> <td colspan="2">8%</td> <td>20%</td> </tr> </tbody> </table> <p>Based on actual emissions reported for calendar year 2006 of 41.7 tpy SO2 and 164 tpy NOx, Engineering Guide #16 requires stack testing every 2.5 years. If problems are indicated by M, R & Rp additional testing will be requested.</p>		test results		permit		#/T	#/hr	limitation	CO	0.03	0.20	0.20 lb/hr	NOx	6.11	43.5	46.3 lb/hr	PE	0.57	4.08	5.81 lb/hr	PM10	0.64	4.55	6.30 lb/hr	SO2	2.47	17.6	20.8 lb/hr	VOC	not tested		0.35 lb/hr	Opacity	8%		20%
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furnace stack emissions, per rolling, 12-month period: 0.88 ton CO; 182.5 tons NOx; 22.9 tons PE 24.8 tons PM10; 82.0 tons SO2; and 1.53 tons VOC	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the addition of electric boost during the 2005 rebuild of this emissions unit resulted in increase production capacity. These limitations were a part of the synthetic minor determination of OAC rule 3745-31-05(C) established by PTI 04-1414 as issued 8/30/2005. SO2 was the pollutant of concern.</p> <p>OR - restrictions on throughput and fuel type.</p> <p>M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing..</p> <p>ET - compliance has been demonstrated through stack testing to establish emissions factors and a validate the rolling, 12-month throughput limitations.</p>																																					

	20 percent opacity, as a 6-minute average unless otherwise specified by the rule	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - while combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. A BAT equal to the SIP limitation was established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005 OR - none, the emissions are stated at maximum calculated furnace capacity. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - this emissions unit was stack tested by Methods 5 and 9 to confirm that the allowable VE limitation did not result in an violation of the particulate restrictions. Stack testing performed 8/17/06 resulted in an 8% opacity average.
	NA	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - at a maximum production rate of 170 tons of glass per day (7.08 tph as glass) Table 1; $E = 4.10 (P)0.67 = 15.2 \text{ lb/hr}$ where $P = 7.08 \text{ tons/hr}$ or, Figure II; $A = 0.5782 U 0.6456 = 12.9 \text{ lb/hr}$ where: AP-42 Table 11.15-1 dated 1/95 indicates the uncontrolled emissions of particulate from the manufacture of pressed and blown glass to be 17.4 lb/ton, $U = 17.4\#/t (7.08 \text{ tph}) = 123.2 \#/hr$ The process total allowable is $5.09+0.01+0.04= 5.14 \text{ lb/hr}$
	NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30(7.08)^{0.67} = 111 \text{ lb SO}_2/\text{hr}$ for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8 \text{ lb/hr}$
	NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
	NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

refiner - 0.29 lb/hr & 1.27 tpy CO; 0.17 lb/hr & 0.75 tpy NOx ; 0.01 lb/hr & 0.03 tpy PE; 0.03 lb/hr & 0.12 tpy PM10; 0.01 lb/hr & 0.01 tpy SO2; 0.02 lb/hr & 0.08 tpy VOC; and 5 percent opacity, as a 3-minute average, tpy per rolling, 12-month period	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - glass is melted in the furnace at approximately 2700°F. The refiner is the area of the furnace where the glass temperature is stabilized to approximately 2250°F. This area is natural gas fired at a maximum rate of 3,375 scf/hr with low-NOx burners as established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005. Limitations were set as rolling, 12-month in the PTI's synthetic minor determination. OR - restrictions on throughput and fuel type. M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing. ET - AP-42 emissions factors were used to establish these limitations, enclosure for stack testing purposes would be difficult, therefore these emissions units have never been stack tested. If problems are indicated by MR&Rp additional testing may be requested.
NA	17-07 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20 percent opacity, as a 3-minute average for fugitive emissions; less stringent than the BAT determination. The refiner is an inherently clean source combusting only natural gas or #2 fuel oil. The raw materials used to make glass are expected to be opacity free by this point of the operation..
NA	17-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for RACT; these requirements are satisfied by complying with BAT T&Cs.
NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30 (7.10)^{0.67} = 112$ lb SO2/hr for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8$ lb/hr
NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

forehearth - 1.92 lb/hr & 8.41 tpy CO; 1.41 lb/hr & 6.18 tpy NOx ; 0.04 lb/hr & 0.20 tpy PE; 0.18 lb/hr & 0.79 tpy PM10; 0.02 lb/hr & 0.09 tpy SO2; 0.13 lb/hr & 0.57 tpy VOC; and 5 percent opacity, as a 3-minute average, tpy per rolling, 12-month period	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - glass is melted in the furnace at approximately 2700°F. The refiner stabilizes the temperature to approximately 2250°F. The forehearth is channels by which molten glass is delivered to the forming machines at about 2050 degrees. This area is natural gas fired at a maximum rate of 17,666 scf/hr with standard burners and 5,148 scf/hr with low-NOx burners as established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005. Limitations were set as rolling, 12-month in the PTI's synthetic minor determination. OR - restrictions on throughput and fuel type. M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing.. ET - AP-42 emissions factors were used to establish these limitations, enclosure for stack testing purposes would be difficult, therefore these emissions units have never been stack tested. If problems are indicated by MR&Rp additional testing may be requested..
NA	17-07 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20 percent opacity, as a 3-minute average for fugitive emissions; less stringent than the BAT determination. The refiner is an inherently clean source combusting only natural gas or #2 fuel oil. The raw materials used to make glass are not expected to be opacity free by this point of the operation..
NA	17-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for RACT; these requirements are satisfied by complying with BAT T&Cs.
NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AER = $30 P^{0.67} = 30 (7.10)^{0.67} = 112$ lb SO2/hr for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8$ lb/hr
NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

P010: slitters and knotchers controlled by a cyclone	20% opacity	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1956 and not an inherently clean source. Standard terms and conditions will be utilized. OR - none. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - this emissions unit has never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested.
	5.5 lbs/hr of particulates	17-11 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1956 and not an inherently clean source control, control is required by a cyclone. Uncontrolled emissions are estimated at 1% of the maximum process weight rate of 3250 lb/hr with 90% effective control = 3.25 pound per hour or 14.2 tpy. At a maximum production rate of 3250 #/hr Table 1; $E = 4.10 (P)^{0.67} = 5.7 \text{ lb/hr}$ where P = 1.6 tons/hr or, Figure II; $A = 0.5782 (U)^{0.6456} = 5.5 \text{ lb/hr}$ where uncontrolled emissions are estimated at 1% of the maximum process weight rate of 3250 lb/hr, U = 32.5#/hr. OR - none, the emissions are stated at maximum capacity. M, R & Rp -daily visible emission checks will be used to determine a need for additional compliance demonstrations. ET - these emissions units have never been stack tested. Since PTE is <25TPY no testing is anticipated. If problems are indicated by M, R & Rp Method 5 testing will be requested

P011 & P012: decorating lehr	3#/hr and 15#/day	21-07 (G)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	Basis: As currently used OAC rule 3745-21-07(G)(1) does not apply because the coating material(a wax-like substance) is not a liquid at standard conditions. OR - none required, usage of a liquid will result in additional necessary MR&Rp. MR&Rp - as by standard terms and conditions. ET - uses M&R to demonstrate compliance.
	NA	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20% opacity is not applicable because no process materials utilized generate particulate and combustion is direct fired.
	NA	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - installed prior to 1974 and an inherently clean source. rule 3745-17-10 will not apply because the process is direct fired. Note: natural gas is not counted in the process weight rate because OAC rule 3745-17-01(B)(14) says "process weight" is defined as "...the total weight of all materials introduced into the source operation including solid fuels, but excluding gaseous fuels and liquid fuels when they are used solely as fuels and excluding air introduced for the purposes of combustion." The weight of the glasses being decorated and the coating material is not counted because Engineering Guide #7 says "Any material which directly or indirectly, by physical and/or chemical means, results in any emission of particulate matter is to be included in the process weight rate determination. The coating is applied by silk-screening and no coating is applied as an aerosol (sprayed).
		18-06 (C)	N	N	N	N	N	N	N	N	N	N	N	N	Basis: Process weight rate is 0.60 lb/hr and 13 lb/hr respectively. OAC rule 3745-18-06(C) states that: "Process equipment which has a rated capacity equal to, or less than, one thousand pounds per hour process weight input is exempt.....". OAC rule 3745-18-06(A)&(B) do not apply because indirect fired emissions units are not considered "fuel burning equipment".
P021 mold paste room	20% opacity	17-07 (A)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1971 and not an inherently clean source. Standard terms and conditions will be utilized. OR - none. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp, Method 9 testing will be requested

	0.82 lb PE/hr	17-11 (B)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in 1971 and not an inherently clean source. Standard terms and conditions will be utilized. At a maximum production rate, using 0.98 lb/hr of applied coating materials, the minimum process weight rate limitation applies = 0.551 lb/hr. Uncontrolled emissions are estimated at 1% of the maximum process weight rate. Figure II does not apply since the uncontrolled mass rate of emissions is less than 10#/hr. The weight of the molds being prepared is not counted because Engineering Guide #7 says "Any material which directly or indirectly, by physical and/or chemical means, results in any emission of particulate matter is to be included in the process weight rate determination."</p> <p>OR - none, the emissions are stated at maximum capacity.</p> <p>M, R & Rp -daily visible emission checks will be used to determine a need for additional compliance demonstrations.</p> <p>ET - these emissions units have never been stack tested. Since PTE is <25TPY no testing is anticipated. If problems are indicated by M, R & Rp Method 5 testing will be requested</p>																																
glass melting furnace: P022	furnace stack emissions: CO - 0.75 lb/hr or 3.29 tpy; NOx - 28.0 lb/hr or 123 tpy; PE - 38.5 tpy; PM10 - 8.66 lb/hr or 37.9 tpy; SO2 - 21.0 lb/hr or 92.0 tpy; and VOC - 1.13 lb/hr or 4.95 tpy	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1456 as issued 12/5/2006. This determination was based on AP-42 emissions factors (NSPS CC requirements for PE) with a maximum pull rate of 75 tpd.</p> <p>OR - restrictions on fuel type.</p> <p>M, R & Rp - recordkeeping of fuel type will indicate the need for a new demonstration of compliance by stack testing.</p> <p>ET - AP-42 emissions factors were used to establish these limitations and compliance has been demonstrated through stack testing performed as follows:</p> <table border="1"> <thead> <tr> <th></th> <th>test results@max #/T</th> <th>#/hr</th> <th>permit limitation</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0.01</td> <td>0.03</td> <td>0.75 lb/hr</td> </tr> <tr> <td>NOx</td> <td>6.76</td> <td>21.8</td> <td>28.0 lb/hr</td> </tr> <tr> <td>PE</td> <td>0.69</td> <td>2.25</td> <td>8.80 lb/hr</td> </tr> <tr> <td>PM10</td> <td>0.75</td> <td>2.42</td> <td>8.66 lb/hr</td> </tr> <tr> <td>SO2</td> <td>1.52</td> <td>4.91</td> <td>21.0 lb/hr</td> </tr> <tr> <td>VOC</td> <td>not tested</td> <td></td> <td>1.13 lb/hr</td> </tr> <tr> <td>opacity</td> <td>5%</td> <td></td> <td>20%</td> </tr> </tbody> </table> <p>Based on actual emissions reported for calendar year 2006 of 63.4 tpy SO2 and 95.7 tpy NOx, Engineering Guide #16 requires stack testing every 5 years. If problems are indicated by M, R & Rp additional testing will be requested.</p>		test results@max #/T	#/hr	permit limitation	CO	0.01	0.03	0.75 lb/hr	NOx	6.76	21.8	28.0 lb/hr	PE	0.69	2.25	8.80 lb/hr	PM10	0.75	2.42	8.66 lb/hr	SO2	1.52	4.91	21.0 lb/hr	VOC	not tested		1.13 lb/hr	opacity	5%		20%
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	NA	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - while combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. A BAT equal to 20% was established by OAC rule 3745-31-05(A)(3) in PTI 04-1456 as issued 12/5/2006.
	8.80#/hr	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - at a maximum production rate of 75 tons of glass per day - 3.125 t/hr Table 1; $E = 4.10 (P)^{0.67} = 8.80 \text{ lb/hr}$ where $P = (75 \text{ tons}/24 \text{ hours})$ or, Figure II; $A = 0.5782 U^{0.6456} = 9.04 \text{ lb/hr}$ where: AP-42 Table 11.15-1 dated 1/95 indicates the uncontrolled emissions of particulate from the manufacture of pressed and blown glass to be 17.4 lb/ton, $U = 17.4\#/t (75t/24 \text{ hr}) = 70.7 \text{ lb/hr}$
	NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30(7.10)^{0.67} = 112 \text{ lb SO}_2/\text{hr}$ for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The BATallowable was set by AP-42 Table 11.15-1 emissions of 5.6#/t (75t/24 hr) = 17.5 lb/hr plus 20% for testing error = 21.0 lb/hr
	NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
	NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.
P023 mycalex machinin g room controlled by fabric filtration	insignificant	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20% opacity
		17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - this area is utilized as a non-production job shop. Maximum production rate is unknown, but estimated to be insignificant. This emissions unit is controlled and deminimis status has not been demonstrated by the company.
		77-01 (U)(3)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes any emission unit with uncontrolled potential emissions of five tons or less per year of any regulated air pollutant other than a hazardous air pollutant and not more than twenty per cent of an applicable major source threshold under the Act.

P024 hard chrome plating	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
R001 - decoratin g spray booth	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
R002 - #1 COE spray booth	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis
T001	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
T002	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - <10#/d VOC, NSPS Kb no longer applies
T003	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - <10#/d VOC, NSPS Kb no longer applies
Z002 - Air stripper for groundwa ter treatment plant	NA	15-05	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - controlled by an activated carbon system, emissions are estimated at <10#/d VOC
Z003 - cullet crusher #1	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis: 30 tph Cullet Crusher #1 (secondary). Particulate emissions for all raw material handling are estimated in AP-42, Table 11-15.2 dated 1/95, to be negligible because "almost all plants utilize some form of control (i. e., baghouses, scrubbers, centrifugal collectors".
Z004 - cullet crusher #2.	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis: 30 tph Cullet Crusher #2 (primary). Particulate emissions for all raw material handling are estimated in AP-42, Table 11-15.2 dated 1/95, to be negligible because "almost all plants utilize some form of control (i. e., baghouses, scrubbers, centrifugal collectors"
Z005 - foreheart h stirrer preheater	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis

Z006 - mold shop walnut blaster	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permanently shutdown
Z007 - mold shop grit blaster	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permanently shutdown

EU = emissions unit ID

ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)

OR = operational restriction

M = monitoring requirements

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement

ENF = did noncompliance issues drive the monitoring requirements?

R = record keeping requirements

Rp = reporting requirements

ET = emission testing requirements (not including compliance method terms)

Misc = miscellaneous requirements

C Instructions for Part III:

- C All non-insignificant EUs must be included in this table. For each EU, or group of similar EUs, each emission limitation and control requirement specified in section A.I.1 and A.I.2 of the permit must be identified and the remainder of the table completed.
- C If the SIP (not including OAC rule 3745-31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including OAC rule 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. If the basis for the term and condition is "Other," an explanation of the basis must be provided in the "Comments" section. If OAC rule 3745-31-05 is cited in the "Other" column, please indicate in the "Comments" section whether or not all of the requirements have been transferred from the permit to install.
- To complete the remainder of the table after "Basis," except for the "Comments" section, simply specify a "Y" for yes or an "N" for no. For the "M," "R," "Rp," and "ET" columns, if "N" is specified, there should be a brief explanation in the "Comments" section as to why there are no requirements. If a brief explanation is provided in the "Comments" section, please do not simply indicate that monitoring or testing requirements are not necessary. An explanation of why a requirement is not necessary should be specified.

When periodic monitoring requirements are established to satisfy the provisions of OAC rule 3745-77-07(A)(3)(a)(ii), the basis for the requirements must be explained. Whenever Engineering Guides have been used to establish the periodic monitoring requirements, the applicable Engineering Guide may be referenced in the "Comments" section. An example that should be clarified would be the situation where it has been determined that control equipment parametric monitoring will be used to evaluate ongoing compliance in lieu of performing frequent emission tests. In this situation, Engineering Guide #65 would be referenced along with the fact that the parametric monitoring range (or minimum value) corresponded to the range (or minimum value) documented during the most recent emission tests that demonstrated that the emissions unit was in compliance. If streamlining language is included in the "Monitoring," "Record Keeping," or "Reporting" requirements sections of the permit, explain which requirements are being streamlined (mark appropriate column above)

and provide a brief explanation of why the streamlined term is equal to or more stringent than the "Monitoring," "Record Keeping," or "Reporting" requirements specified in the permit to install. If Engineering Guide #16 was used as the basis for establishing an emission test frequency, a simple note referencing the Engineering Guide in the "Comments" section would be sufficient.

Also, if a "Y" is noted under "OR," "Misc," "St," "ND," or "ENF" an explanation of the requirements must be provided in the "Comments" section. In addition to a general explanation of the "OR," "Misc," "St," "ND," and/or "ENF" the following must be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, and reporting requirements have been specified for the operational restriction and indicate whether or not CAM is currently applicable.
2. If a control plan and schedule is included in the "Miscellaneous Requirements" section of the permit, provide an explanation in the "Comments" section of the violation, basis for the violation, and the company's proposed control plan and schedule.
3. If the "ND" column above is marked, please identify the particular rule(s) that is (are) not applicable to the specified emissions unit.
2. If the "ENF" column above is marked, please provide a brief explanation of the noncompliance issue(s) which prompted the use of the specified monitoring requirement.

An explanation is not required if an "N" is noted in the "OR," "Misc," "St," "ND," or "ENF" columns.

C **Additional information for modifications** - Several types of modifications, as defined by rule, may be processed concurrently. Please provide enough of a description for someone wishing to review the changes to the permit language to be able to identify where the change is made in the permit document. This brief description should be identified in the appropriate row in the first table of this form by replacing the "N/A" in the applicable row(s). Please also indicate if the modification is being initiated by an appeal by including the ERAC case number in the "Comments" area. Please update the term-specific text in the SOB as warranted (full insertion or replacement is acceptable; bold italic and strike out is not needed). Note all modification/reopening rows should remain "N/A" when developing the SOB during the initial permit development. Note: APA's and Off-permit changes do not need to be noted in the SOB.