OhioEPA

State of Ohio Environmental Protection Agency

Street Address: 1800 WaterMark Drive, Columbus, OH 43215-1099

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

Mailing Address: P.O. Box 1049, Columbus, OH 43216-1049

08/27/98

CERTIFIED MAIL

RE: Proposed Title V Chapter 3745-77 permit
01-23-01-0078
Anchor Hocking Glass Co.

Attn: Genevieve Damico AR-18J
United States Enviromental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for Anchor Hocking Glass Co., has been created in Ohio EPA's State Air Resources System (STARS) on 08/27/98, for review by USEPA. This proposed action is identified in STARS as 3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Central District Office
Becky Castle, DAPC PMU

OhioEPA

Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 08/27/98

PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

Anchor Hocking Glass Co.
1115 W. Fifth Avenue
Lancaster, OH 43130

of a Title V permit for Facility ID: 01-23-01-0078

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
B001 (Boiler 1)
Boiler 1 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

B003 (Boiler 2)
Boiler 2 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

B004 (Boiler 3)
Boiler 3 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

B005 (Boiler 4)
Boiler 4 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

B006 (Boiler 5)
Boiler 5 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

F001 (Batch Unloading)
Raw material handling of minor ingredients and weighing operations

K001 (Box Plt Flexo Press)
Box Plant Flexowriter (S&S) Press

K002 (Box Plt Corrug Press)
Box Plant Corrugated (Hooper) Press

L001 (Degreaser Spraybooth)
Maintenance/Electric Shop Degreaser Spraybooth

P001 (Box Plant Cyclone)
Box Plant Cardboard Cutting

P002 (Mold Shop Baghse)
Mold Shop Machining Baghouse

P006 (Furnace/Tank 1-2)
Furnace 1-2 - 9 tph glass melting furnace

P007 (Furnace/Tank 1-1)
Furnace 1-1 - 9.5 tph glass melting furnace

P008 (Unloading & Cullet Baghouse)
Raw material unloading and cullet handling, crusher, and hotbins

P009 (Furnace/Tank 1-3)
Furnace 1-3 - 9 tph glass melting furnace

P010 (Batch Weighing and Handling)
Batch unloading of major ingredients from storage silos to weighing operations

P011 (Glass Forming/Annealing)
Glass forming (pressing/blowing) and annealing, tempering, heat soak lines

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. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Central District Office
3232 Alum Creek Drive
PO Box 1049
Columbus, OH 43216-1049
(614) 728-3778

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, 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.

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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

   i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
   ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., 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.) See B.8 below if no deviations occurred during the quarter.
   iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring</u>, <u>recordkeeping</u>, <u>and reporting requirements</u> contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month

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

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 are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

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.

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.

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. 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.

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.

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.

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.

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 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.

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.

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 appropriate Ohio EPA District Office or local air agency 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 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.

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.

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).

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.

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, except that no such notice shall be required for changes that qualify as insignificant emission 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; and

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.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. **Compliance Method Requirements**

No term or condition specifying a method for demonstrating compliance with any emission limitation or other requirement of this permit shall preclude the use by any person of any credible evidence to establish compliance with or a violation of this permit, the Clean Air Act, or any implementing regulations or rules promulgated thereunder.

B. State Only Enforceable Section

1. 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.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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 quarterly, i.e., 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.)

3. 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.

4. 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.

5. 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).

6. 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.

7. 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.

8. 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 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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility: Heat Treat 3-5 (Z002), Heat Treat (Z003), Deco Lehr 1 (Z004), Deco Lehr 2 (Z005), Deco Lehr 3 (Z006), Space Heater 1 (Z007), Space Heater 2 (Z008), Space Heater 3 (Z009), Space Heater 4 (Z010), and Space Heater 5 (Z011). 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 a Permit to Install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 1 (B001)

Activity Description: Boiler 1 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PM) shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions (SO2) shall not exceed 1.6 lbs/MMBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, 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).) Also, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section A.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
0.020 lb PM/MMBtu actual heat input.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (17.2 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

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

V. Testing Requirements (continued)

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.c Emission limitation -
1.6 lbs SO2/MMBtu actual heat input.

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel-oil fired boiler	OAC rule 3745-31-05 (PTI 01-6442)	1.72 lbs PM/hr* 26.65 lbs SO2/hr* 0.06 lb VOC/hr 3.08 lbs NOx/hr 0.30 lb CO/hr *See B.I.2.a

2. Additional Terms and Conditions

2.a The hourly mass emission limits for PM and SO2 established for this emissions unit, listed in Section B.I.1, are less stringent than the lb/MMBtu emission limits established in Section A.I.1 of these terms and conditions.

II. Operational Restrictions

1. The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis. (This operating restriction is less stringent than the restriction in Section A.II.1.)

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section B.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III, above (following conversion from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission limitation -
1.72 lbs PM/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.).

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

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

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

1.b Emission Limitation -
26.65 lb SO2/hr;

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation. When necessary, the units of sulfur content shall be converted from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

1.c Emission Limitation -
0.06 lb VOC/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.28 lbs/MMcu.ft.).

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

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

V. Testing Requirements (continued)

1.d Emission Limitation -
3.08 lbs NOx/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (20 lbs/1000 gal).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum hourly No. 6 oil burning capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (55 lbs/1000 gal).

1.e Emission Limitation -
0.30 lb CO/hr.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (21 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 6 oil (5 lbs/1000 gal).

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 2 (B003)

Activity Description: Boiler 2 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PM) shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions (SO2) shall not exceed 1.6 lbs/MMBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, 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).) Also, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section A.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
0.020 lb PM/MMBtu actual heat input.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (17.2 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

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

V. Testing Requirements (continued)

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.c Emission limitation -
1.6 lbs SO2/MMBtu actual heat input.

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel-oil fired boiler	OAC rule 3745-31-05 (PTI 01-6442)	1.72 lbs PM/hr* 26.65 lbs SO2/hr* 0.06 lb VOC/hr 3.08 lbs NOx/hr 0.30 lb CO/hr *See B.I.2.a

2. Additional Terms and Conditions

2.a The hourly mass emission limits for PM and SO2 established for this emissions unit, listed in Section B.I.1, are less stringent than the lb/MMBtu emission limits established in Section A.I.1 of these terms and conditions.

II. Operational Restrictions

1. The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis. (This operating restriction is less stringent than the restriction in Section A.II.1.)

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section B.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III, above (following conversion from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission limitation -
1.72 lbs PM/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.).
For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal).

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

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

1.b Emission Limitation -
26.65 lb SO2/hr;

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation. When necessary, the units of sulfur content shall be converted from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

1.c Emission Limitation -
0.06 lb VOC/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.28 lbs/MMcu.ft.).

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

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

V. Testing Requirements (continued)

1.d Emission Limitation -
3.08 lbs NOx/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (20 lbs/1000 gal).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum hourly No. 6 oil burning capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (55 lbs/1000 gal).

Emissions Limitation -
0.30 lb CO/hr.

1.e Emission Limitation -
0.30 lb CO/hr.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (21 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 6 oil (5 lbs/1000 gal).

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 3 (B004)

Activity Description: Boiler 3 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PM) shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions (SO2) shall not exceed 1.6 lbs/MMBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, 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).) Also, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section A.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
0.020 lb PM/MMBtu actual heat input.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (17.2 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

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

V. Testing Requirements (continued)

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.c Emission limitation -
1.6 lbs SO2/MMBtu actual heat input.

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel-oil fired boiler	OAC rule 3745-31-05 (PTI 01-6442)	1.72 lbs PM/hr* 26.65 lbs SO2/hr* 0.06 lb VOC/hr 3.08 lbs NOx/hr 0.30 lb CO/hr *See B.I.2.a

2. Additional Terms and Conditions

1. The hourly mass emission limits for PM and SO2 established for this emissions unit, listed in Section B.I.1, are less stringent than the lb/MMBtu emission limits established in Section A.I.1 of these terms and conditions.

II. Operational Restrictions

1. The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis. (This operating restriction is less stringent than the restriction in Section A.II.1.)

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section B.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III, above (following conversion from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission limitation -
1.72 lbs PM/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.).

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

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

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

1.b Emission Limitation -
26.65 lb SO2/hr;

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation. When necessary, the units of sulfur content shall be converted from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

1.c Emission Limitation -
0.06 lb VOC/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.28 lbs/MMcu.ft.).

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

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

V. Testing Requirements (continued)

1.d Emission Limitation -
3.08 lbs NOx/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (20 lbs/1000 gal).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum hourly No. 6 oil burning capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (55 lbs/1000 gal).

1.e Emission Limitation -
0.30 lb CO/hr.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (21 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 6 oil (5 lbs/1000 gal).

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 4 (B005)

Activity Description: Boiler 4 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PM) shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions (SO2) shall not exceed 1.6 lbs/MMBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, 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).) Also, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section A.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
0.020 lb PM/MMBtu actual heat input.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (17.2 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

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

V. Testing Requirements (continued)

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.c Emission limitation -
1.6 lbs SO2/MMBtu actual heat input.

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel-oil fired boiler	OAC rule 3745-31-05 (PTI 01-6442)	1.72 lbs PM/hr* 26.65 lbs SO2/hr* 0.06 lb VOC/hr 3.08 lbs NOx/hr 0.30 lb CO/hr *See B.I.2.a

2. Additional Terms and Conditions

2.a The hourly mass emission limits for PM and SO2 established for this emissions unit, listed in Section B.I.1, are less stringent than the lb/MMBtu emission limits established in Section A.I.1 of these terms and conditions.

II. Operational Restrictions

1. The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis. (This operating restriction is less stringent than the restriction in Section A.II.1.)

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section B.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III, above (following conversion from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission limitation -
1.72 lbs PM/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.).
For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal).

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

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

1.b Emission Limitation -
26.65 lb SO2/hr;

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation. When necessary, the units of sulfur content shall be converted from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

1.c Emission Limitation -
0.06 lb VOC/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.28 lbs/MMcu.ft.).

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

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

V. Testing Requirements (continued)

1.d Emission Limitation -
3.08 lbs NOx/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (20 lbs/1000 gal).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum hourly No. 6 oil burning capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (55 lbs/1000 gal).

1.e Emission Limitation -
0.30 lb CO/hr.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (21 lbs/MMcu.ft.).
For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 6 oil (5 lbs/1000 gal).

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler 5 (B006)

Activity Description: Boiler 5 - Natural gas/Fuel Oil fired 8.34 MMBtu/h boiler

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PM) shall not exceed 0.020 lb/MMBtu actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions (SO2) shall not exceed 1.6 lbs/MMBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, 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).) Also, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

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

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

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

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section A.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit in conjunction with the burning of any fuel other than natural gas and/or No. 2 fuel oil, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
0.020 lb PM/MMBtu actual heat input.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum No. 2 fuel oil capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (2.0 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum No. 6 fuel oil capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (17.2 lbs PM/1000 gal) and dividing by the maximum hourly heat input capacity of the emissions unit (8.34 MMBtu/hr).

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

V. Testing Requirements (continued)

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.c Emission limitation -
1.6 lbs SO2/MMBtu actual heat input.

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
8.34 MMBtu/hr natural gas/fuel-oil fired boiler	OAC rule 3745-31-05 (PTI 01-6442)	1.72 lbs PM/hr* 26.65 lbs SO2/hr* 0.06 lb VOC/hr 3.08 lbs NOx/hr 0.30 lb CO/hr *See B.I.2.a

2. Additional Terms and Conditions

2.a The hourly mass emission limits for PM and SO2 established for this emissions unit, listed in Section B.I.1, are less stringent than the lb/MMBtu emission limits established in Section A.I.1 of these terms and conditions.

II. Operational Restrictions

1. The quality of oil burned in this emissions unit shall have a maximum sulfur content of 3%, by weight, on an as-burned basis. (This operating restriction is less stringent than the restriction in Section A.II.1.)

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation in Section B.I, based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III, above (following conversion from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr). The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission limitation -
1.72 lbs PM/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (4.5 lbs PM/MMcu.ft.).

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

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

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

1.b Emission Limitation -
26.65 lb SO2/hr;

Applicable Compliance Method -
Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation. When necessary, the units of sulfur content shall be converted from "lb/MMBtu" to "lb/hr" by multiplying times a factor of 8.34 MMBtu/hr.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

1.c Emission Limitation -
0.06 lb VOC/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (5.28 lbs/MMcu.ft.).

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

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

V. Testing Requirements (continued)

1.d Emission Limitation -
3.08 lbs NOx/hr;

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (100 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 2 oil (20 lbs/1000 gal).

For the use of No. 6 oil, compliance shall be based upon multiplying the maximum hourly No. 6 oil burning capacity of the emissions unit (56 gal/hr) by the AP-42 emission factor for No. 6 oil (55 lbs/1000 gal).

1.e Emission Limitation -
0.30 lb CO/hr.

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0084 MMcu.ft./hr) by the AP-42 emission factor for natural gas (21 lbs/MMcu.ft.).

For the use of No. 2 oil, compliance shall be based upon multiplying the maximum hourly No. 2 oil burning capacity of the emissions unit (60 gal/hr) by the AP-42 emission factor for No. 6 oil (5 lbs/1000 gal).

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Batch Unloading (F001)

Activity Description: Raw material handling of minor ingredients and weighing operations

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Raw material handling of minor ingredients and weighing operations, controlled with baghouse but venting indoors (no stack)	See A.I.2.a	

2. Additional Terms and Conditions

2.a This emissions unit is not located in an Appendix A area, pursuant to OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Raw material handling of minor ingredients and weighing operations, controlled with baghouse but venting indoors (no stack)	OAC rule 3745-31-05 (PTI 01-4264)	0.50 lb PM/hr Visible opacity of fugitive particulate emissions from building shall not exceed 20 percent as a 3-minute average.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

1. The permittee shall submit quarterly reports to Ohio EPA Central District Office which summarize the following

a. identification of materials processed;

b. tons of materials processed;

c. hours of operation; and

d. daily average emissions of PM calculated in accordance with B.V.1.a of these terms and conditions.

The report shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the previous three calendar months (October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be demonstrated in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation -
0.50 lb PM/hr

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

1.b Emission Limitation -
20 percent opacity as a 3-minute average

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Plt Flexo Press (K001)

Activity Description: Box Plant Flexowriter (S&S) Press

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Sheet-fed, Non-heatset Box Plant Flexowriter (S&S) Press	OAC rule 3745-21-07(A)(2)(c)	Exempt from the requirements of OAC rule 3745-21-07
	OAC rule 3745-21-09(A)(3)(b)	Exempt from the requirements of OAC rule 3745-21-09(Y)

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Box Plt Corrug Press (K002)

Activity Description: Box Plant Corrugated (Hooper) Press

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Sheet-fed, Non-heatset Box Plant Corrugated (Hooper) Press	OAC rule 3745-21-07(A)(2)(c)	Exempt from the requirements of OAC rule 3745-21-07
	OAC rule 3745-21-09(A)(3)(b)	Exempt from the requirements of OAC rule 3745-21-09(Y)

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Degreaser Spraybooth (L001)

Activity Description: Maintenance/Electric Shop Degreaser Spraybooth

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Maintenance/Electric Shop Degreaser Spraybooth	OAC rule 3745-21-07(A)(2)(c)	Exempt from the requirements of OAC rule 3745-21-07
	OAC rule 3745-21-09(A)(3)(a)	Exempt from the requirements of OAC rule 3745-21-09(O)

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Box Plant Cyclone (P001)

Activity Description: Box Plant Cardboard 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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Box Plant Cardboard Cutting, controlled with cyclone/multiclone	OAC rule 3745-17-11(B)(1)	Particulate emissions (PM) shall not exceed 30.5 lbs/hr.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the cyclone/multiclone control systems. The presence or absence of any visible emissions from the cyclone/multiclone control systems shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall be noted in the operations log.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which (a) identify all days during which any visible particulate emissions were observed from the cyclone/multiclone control systems and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (the appropriate Ohio EPA District Office or local air agency).

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.b Emission Limitation -
30.5 lbs PM/hr

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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 Shop Baghse (P002)

Activity Description: Mold Shop Machining Baghouse

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Mold Shop Machining, controlled with baghouse but venting indoors (no stack)	See A.I.2.a	

2. Additional Terms and Conditions

2.a This emissions unit is not located in an Appendix A area, pursuant to OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Furnace/Tank 1-2 (P006)

Activity Description: Furnace 1-2 - 9 tph glass melting furnace

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Furnace 1-2 (9.0 tons/hr uncontrolled glass melting furnace)	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PM) shall not exceed 17.9 lbs/hr.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. Except as necessary to achieve maximum production during a compliance test, the permittee shall not operate source P006 at a pull rate greater than 7.61 tons of glass per hour unless the permittee first demonstrates compliance with the limits specified in section A.I.1 of these terms and conditions at the desired, higher operating rate.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emissions Limitation -
17.9 lbs PM/hr

Appropriate Compliance Method -
Within 12 months after issuance of this permit, and within 6 months prior to the expiration of this permit, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), this facility 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 regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions test(s) shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Furnace/Tank 1-1 (P007)

Activity Description: Furnace 1-1 - 9.5 tph glass melting furnace

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Furnace 1-1 (9.5 tons/hr uncontrolled glass melting furnace)	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PM) shall not exceed 18.53 lb/hr

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. Except as necessary to achieve maximum production during a compliance test, the permittee shall not operate source P007 at a pull rate greater than 8.745 tons of glass per hour unless the permittee first demonstrates compliance with the limits specified in section A.I.1 of these terms and conditions at the desired, higher operating rate.

III. Monitoring and/or Record Keeping Requirements

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

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

1.a Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.b Emissions Limitation -
18.53 lbs PM/hr

Appropriate Compliance Method -
Within 12 months after issuance of this permit, and within 6 months prior to the expiration of this permit, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), this facility 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 regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions test(s) shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Unloading & Cullet Baghouse (P008)

Activity Description: Raw material unloading and cullet handling, crusher, and hotbins

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Raw material unloading and cullet crushing and handling, controlled with 2 baghouses	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PM) shall not exceed 51.2 lb/hr

2. Additional Terms and Conditions

2.a This emissions unit is not located in an Appendix A area, pursuant to OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the baghouses. The presence or absence of any visible emissions from the baghouses shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall be noted in the operations log.

2. The permittee shall maintain daily records of the following information:

a. quantity of major ingredients and cullet processed in the emissions unit, in tons; and

b. hours of operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports to the Director (the appropriate Ohio EPA District Office or local air agency) which (a) identify all days during which any visible particulate emissions were observed from the baghouses and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by The report shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the previous three calendar months (October through December, January through March, April through June, and July through September, respectively).

IV. Reporting Requirements (continued)

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

a. daily quantity of major ingredients and cullet processed, in tons; and

b. daily hours of operation.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
51.2 lb PM/hr

Applicable Compliance Method -
Compliance shall be based upon the sum of the daily average hourly material handling rate [(A.III.2.a)/(A.III.2.b)] multiplied by the uncontrolled RACM emission factor for combined material handling processes [(1.56 lb/ton)x(0.10)], where 10% is the uncaptured percentage of all particulate emissions AND the daily average hourly material handling rate [(A.III.2.a)/(A.III.2.b)] multiplied by the controlled RACM emission factor for combined material handling processes [(1.56 lb/ton)x(0.90)x(1 - 0.995), where 90% is the captured percentage of all particulate emissions and 99.5% is the baghouse removal efficiency.
Note: AP-42, Table 11.15-1, states that particulate emissions from material handling at glass manufacturing facilities are negligible.

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

1.b Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Furnace/Tank 1-3 (P009)

Activity Description: Furnace 1-3 - 9 tph glass melting furnace

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Furnace 1-3 (9.0 tons/hr modified process glass melting furnace)	40 CFR Part 60, Subpart CC	Visible particulate emissions from any stack shall not exceed 10.3 percent opacity, as a 6-minute average.** Particulate emissions (PM) shall not exceed 1.0 lb/ton of glass pulled.*** ** See A.I.2.a *** Less stringent than OAC rule 3745-31-05, below.
	OAC rule 3745-31-05 (PTI 01-3867)	0.9 lb PM/ton of glass produced; 0.9 lb PM10/ton of glass produced;* 20.0 lbs NOx/ton of glass produced; 1.26 lbs SO2/ton of glass produced; 0.0147 lb CO/ton of glass produced; 0.3 lb VOC/ton of glass produced; 0.0004 lb Lead/ton of glass produced. * See A.I.2.b
	OAC rules 3745-17-11(B)(1) and 3745-17-07(A)(1)	The limitations from these rules are equal to or less stringent than the above limitations.

2. Additional Terms and Conditions

2.a This opacity limitation was established to correspond to the 97.5 percent upper confidence level of a normal distribution of the opacity recorded during the initial compliance demonstration, as 6-minute averages, pursuant to 40 CFR Part 60.293(c).

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

2. Additional Terms and Conditions (continued)

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

2. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

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

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

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

5. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous, valid, and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and be made available to the Director (Ohio EPA Central District Office).

IV. Reporting Requirements

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

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

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

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emissions Limitation -
0.9 lb PM/hr

Appropriate Compliance Method -
Within 12 months after issuance of the permit, and within 6 months prior to the expiration of this permit, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), this facility 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 regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions test(s) shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

V. Testing Requirements (continued)

1.b Emissions Limitation -
0.9 lb PM10/ton glass

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

1.c Emissions Limitation -
20.0 lbs NOx/ton glass

Applicable Compliance Method -
Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (19.95 lb NOx/ton glass) or upon stack testing.

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

1.d Emissions Limitation -
1.26 lbs SO2/ton glass

Applicable Compliance Method -
Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (1.26 lb SO2/ton glass), or upon stack testing.

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

1.e Emissions Limitation -
0.0147 lb CO/ton glass

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

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

1.f Emissions Limitation -
0.3 lb VOC/ton glass

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

If required, stack testing shall be performed in accordance with 40 CFR Part 60, Appendix A, method 25 or 25A (as appropriate).

1.g Emissions Limitation -
0.0004 lb Pb/ton glass

Applicable Compliance Method -
Compliance shall be based upon emissions calculations using the emission factor developed for this source through stack testing (0.0003 lb Pb/ton glass) or upon stack testing.

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

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Batch Weighing and Handling (P010)

Activity Description: Batch unloading of major ingredients from storage silos to weighing operations

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Batch unloading of major ingredients from storage silos to weighing operations, controlled with multiple dust collectors	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PM) from any stack shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PM) shall not exceed 9.78 lbs/hr * * See A.I.2.a

2. Additional Terms and Conditions

2.a The BAT-based mass emission limitation established in Section B.I.1 for this emissions unit is more stringent than the hourly mass emission limitation established in Section A.I.1 of these terms and conditions.

2.b This emissions unit is not located in an Appendix A area, pursuant to OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from all dust collectors. The presence or absence of any visible emissions from the dust collectors shall be noted in an operations log. If any visible emissions are observed from any dust collection system, corrective actions shall be taken to eliminate the visible emissions and these actions shall be noted in the operations log.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports to the Director (the appropriate Ohio EPA District Office or local air agency) which (a) identify all days during which any visible particulate emissions were observed from the dust collector(s) and (b) describe the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the previous three calendar months (October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

1.a Emission Limitation -
20 percent opacity, as a 6-minute average, except as provided by rule.

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

1.b Emission Limitation -
9.78 lb PM/hr

Applicable Compliance Method -
Compliance shall be based upon the calculation in Section B.V.1.a of these terms and conditions. If required, this facility shall conduct, or have conducted, an emissions test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emissions rate for particulates. The emissions test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Batch unloading of major ingredients from storage silos to weighing operations, controlled with multiple dust collectors	OAC rule 3745-31-05 (PTI 01-4264)	Particulate emissions (PM) shall not exceed 0.5 lb/hr

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:

a. type and quantity of materials processed in the emissions unit, in tons; and

b. hours of operation.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports to the Ohio EPA Central District Office which summarize the following:

a. identification of material processed;

b. tons of material processed; and

c. hours of operation.

These reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the previous three calendar months (October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emissions limitation in Section B.I of these terms and conditions shall be demonstrated in accordance with the following method:

V. Testing Requirements (continued)

1.a Emission Limitation -
0.5 lb PM/hr

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

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

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Glass Forming/Annealing (P011)

Activity Description: Glass forming (pressing/blowing) and annealing, tempering, heat soak lines

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Uncontrolled glass forming (pressing/blowing), annealing, tempering, and heat soak lines (no stack)	OAC rule 3745-17-07 OAC rule 3745-17-08	See A.I.2.a

2. Additional Terms and Conditions

2.a This emissions unit is not located in an Appendix A area; therefore, OAC rules 3745-17-08 and 3745-17-07 are not applicable.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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

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