



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

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

Mailing Address:

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

04/29/03

RE: Proposed Title V Chapter 3745-77 Permit

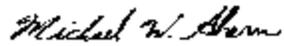
**01-65-01-0001
Thomson, Inc.**

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

Dear Ms. Damico:

The proposed issuance of the Title V permit for Thomson, Inc., has been created in Ohio EPA's State Air Resources System (STARS) on 04/29/03, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit +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 me 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,


Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Central District Office
File, DAPC PMU



State of Ohio Environmental Protection Agency

PROPOSED TITLE V PERMIT

Issue Date: 04/29/03

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 01-65-01-0001 to:
Thomson, Inc.
Thomson, Inc.
24200 U.S. Route 23 South
Circleville, OH 43113-9002

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

B011 (A Furnace Refiner, Lehrs, Forehearth) Refiner, Forehearth (2), Lehr (2)	Batch Weigh and Mix, Mixed Batch Feed, Batch Silos, and Secondary Cullet Crushers	P011 (C Batch House) Transfer, Cullet silo, Batch Weigh and Mix, Batch Silos, Mixed Batch Feed, and Secondary Cullet Crushers, and Cullet Breaker Bars
B012 (B Furnace Refiner, Lehrs, Forehearth) Refiner, Forehearth(2), Lehr(2)	P004 (A Furnace) Glass Melting Furnace A with ESP	P012 (C Batch House-Receiving and Unloading (C Track Shed)) Raw materials Unloading & Receiving Area
B013 (C Furnace Refiner, Lehrs, Forehearth) Refiner, Forehearth (2), Lehr (2)	P005 (B Furnace) Glass Melting Furnace B with ESP	
P001 (AB Batch House) Receiving & Unloading, Transfer, Cullet Silo,	P010 (C Furnace) Glass Melting Furnace C with ESP	

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 3745-77-08(E) 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

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. *State and Federally Enforceable Section*

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

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

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

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

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

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

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

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

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

ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

(a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (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. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred,

describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i), (ii) and (iii))

- (b) Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

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

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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, record keeping, 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.

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

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

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

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 of any emissions unit(s) 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 OAC rule 3745-15-06, 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).

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

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.

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

4. Title IV Provisions

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

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

5. Severability Clause

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

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is

grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Authority for term: OAC rule 3745-77-07(A)(7))

7. Fees

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

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

8. Marketable Permit Programs

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

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

9. Reasonably Anticipated Operating Scenarios

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

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

10. Reopening for Cause

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

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

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

11. Federal and State Enforceability

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

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

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

- i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

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

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

14. Operational Flexibility

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

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

15. Emergencies

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

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

16. Off-Permit Changes

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

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as

insignificant 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.
- 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 purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.) *(Authority for term: OAC rule 3745-77-07(I))*

17. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

18. Insignificant Activities

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

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

19. Permit to Install Requirement

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

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

20. Air Pollution Nuisance

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

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

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

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

2. Records Retention Requirements

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

3. Inspections and Information Requests

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

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

4. Scheduled Maintenance/Malfunction Reporting

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

5. Permit Transfers

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

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

If no 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 Enforcable Section

1. The permittee shall maintain and implement a Preventative Maintenance and Malfunction Abatement Plan (PM&MAP) for each emissions unit and its associated control equipment. This plan shall include the requirements for compliance with OAC rule 3745-15-06. Within thirty (30) days following revisions to the plan, it shall be submitted to the Ohio EPA, Central District Office for review and approval.

B. State Only Enforceable Section

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

B003 - "C" furnace emergency generator 1;
B004 - "C" furnace emergency generator 2;
B005 - "C" ESP emergency generator;
B006 - WWTP emergency generator;
B007 - "A" ESP emergency generator;
B008 - "B" ESP emergency generator;
B009 - vaporizer 1;
B010 - vaporizer 2;
B014 - fire pump emergency generator;
B015 - Well House emergency generator;
B016 - "A" furnace emergency generator;
B017 - "B" furnace emergency generator;
P013 - chrome line;
P014 - C1 breaker bars;
P015 - C2 breaker bars;
T001 - 3 x 30,000-gallon propane storage tanks (1, 2, & 3);
T002 - 3 x 30,000-gallon propane storage tanks (4, 5, & 6);
T003 - 2,500-gallon diesel fuel storage tank for "C" furnace;
T004 - WWTP diesel fuel storage;
T005 - "A" ESP emergency generator tank;
T006 - "B" ESP emergency generator tank;
Z001 - grind slurry make-up bag dumping;
Z002 - "A" primary cullet breaker bars;
Z003 - "B" primary cullet breaker bars;
Z004 - "C" furnace charger;
Z005 - roadways;
Z006 - sand blasters;
Z007 - heater MUAU-1, warehouse (4.703 mmBtu/hr);
Z008 - heater MUAU-2, warehouse (4.703 mmBtu/hr);
Z009 - "A" secondary cullet crushers;
Z010 - "B" secondary cullet crushers;
Z011 - "A" cullet silo;
Z012 - "B" cullet silo;
Z013 - day bin "A" north;
Z014 - day bin "A" south;
Z015 - day bin "B" north;
Z016 - day bin "B" south;
Z017 - "A" furnace charger;
Z018 - B1 east CNS cullet reject;
Z019 - B1 west CNS cullet reject;
Z020 - "A" mixed batch feed;
Z021 - "B" mixed batch feed;
Z022 - "C" day bin;
Z023 - C1 reject hopper; and
Z024 - C2 reject hopper.

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: A Furnace Refiner, Lehrs, Forehearth (B011)

Activity Description: Refiner, Forehearth (2), Lehr (2)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
"A" furnace support equipment - 20.45 mmBtu per hour, direct fired, natural gas-fired refiner, forehearths, and Lehrs	OAC rule 3745-31-05(A)(3) (PTI 01-4362)	<p>Sulfur dioxide (SO₂) emissions shall not exceed 0.012 pound per hour.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.50 pound per hour.</p> <p>Organic compound (OC) emissions shall not exceed 0.163 pound per hour.</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 3.48 pounds per hour.</p> <p>Particulate emissions (PE) shall not exceed 0.43 pound per hour.</p>
	OAC rule 3745-17-08(B)	<p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-21-08(B) and 3745-23-06(B).</p> <p>This rule is not applicable to this emissions unit because the facility is not located in an Appendix A area.</p>
	OAC rule 3745-17-07(B)	<p>Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.</p>
	OAC rule 3745-18-06(E)	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

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

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

1.a Emission Limitation:
 SO₂ emissions shall not exceed 0.012 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 0.6 pound SO₂ per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 20.45 mmBtu per hour.

1.b Emission Limitation:
 CO emissions shall not exceed 0.50 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 24 pounds CO per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 20.45 mmBtu per hour.

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
OC emissions shall not exceed 0.163 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 5.5 pounds OC per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 20.45 mmBtu per hour.

- 1.d** Emission Limitation:
PE shall not exceed 0.43 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 1.9 pounds PE per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 20.45 mmBtu per hour.

- 1.e** Emission Limitation:
NOx emissions shall not exceed 3.48 pounds per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 170 pounds NOx per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 20.45 mmBtu per hour.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: B Furnace Refiner, Lehrs, Forehearth (B012)

Activity Description: Refiner, Forehearth(2), Lehr(2)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
"B" furnace support equipment - 25.85 mmBtu per hour, direct fired, natural gas-fired refiner, forehearths, and Lehrs	OAC rule 3745-31-05(A)(3) (PTI 01-4362)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.02 pound per hour.
		Carbon monoxide (CO) emissions shall not exceed 0.62 pound per hour.
		Organic compound (OC) emissions shall not exceed 0.21 pound per hour.
		Nitrogen oxides (NO _x) emissions shall not exceed 4.40 pounds per hour.
		Particulate emissions (PE) shall not exceed 0.54 pound per hour.
	OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-07(B)	This rule is not applicable to this emissions unit because the facility is not located in an Appendix A area.
		Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.
	OAC rule 3745-18-06(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

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

- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

- 1.a** Emission Limitation:
SO₂ emissions shall not exceed 0.02 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 0.6 pound SO₂ per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 25.85 mmBtu per hour.

- 1.b** Emission Limitation:
CO emissions shall not exceed 0.62 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 24 pounds CO per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 25.85 mmBtu per hour.

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
OC emissions shall not exceed 0.21 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 5.5 pounds OC per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 25.85 mmBtu per hour.

- 1.d** Emission Limitation:
PE shall not exceed 0.54 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 1.9 pounds PE per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 25.85 mmBtu per hour.

- 1.e** Emission Limitation:
NOx emissions shall not exceed 4.40 pounds per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 170 pounds NOx per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 25.85 mmBtu per hour.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: C Furnace Refiner, Lehrs, Forehearth (B013)

Activity Description: Refiner, Forehearth (2), Lehr (2)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
"C" furnace support equipment - 19.83 mmBtu per hour, direct fired, natural gas-fired refiner, forehearths, and Lehrs	OAC rule 3745-31-05(A)(3) (PTI 01-4362)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.012 pound per hour.
		Carbon monoxide (CO) emissions shall not exceed 0.48 pound per hour.
		Organic compound (OC) emissions shall not exceed 0.16 pound per hour.
		Nitrogen oxides (NO _x) emissions shall not exceed 3.38 pounds per hour.
		Particulate emissions (PE) shall not exceed 0.42 pound per hour.
	OAC rule 3745-17-08	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08, 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-07(B)	This rule is not applicable to this emissions unit because the facility is not located in an Appendix A area.
		Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.
	OAC rule 3745-18-06(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

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

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-4362.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

1.a Emission Limitation:
 SO₂ emissions shall not exceed 0.012 pound per hour.

Applicable Compliance Methods:
 Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 0.6 pound SO₂ per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 19.83 mmBtu per hour.

1.b Emission Limitation:
 CO emissions shall not exceed 0.48 pound per hour.

Applicable Compliance Methods:
 Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 24 pounds CO per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 19.83 mmBtu per hour.

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
OC emissions shall not exceed 0.16 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 5.5 pounds OC per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 19.83 mmBtu per hour.

- 1.d** Emission Limitation:
PE shall not exceed 0.42 pound per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-2, 7/98) of 1.9 pounds PE per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 19.83 mmBtu per hour.

- 1.e** Emission Limitation:
NOx emissions shall not exceed 3.38 pounds per hour.

Applicable Compliance Methods:

Compliance shall be demonstrated by dividing the emission factor for natural gas combustion (AP-42, Table 1.4-1, 7/98) of 170 pounds NOx per mmscf by 1000 Btu per scf and multiplying by the maximum heat input rating of 19.83 mmBtu per hour.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: AB Batch House (P001)

Activity Description: Receiving & Unloading, Transfer, Cullet Silo, Batch Weigh and Mix, Mixed Batch Feed, Batch Silos, and Secondary Cullet Crushers

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
"A" & "B" Batch House - raw material handling with several fabric filters venting to baghouse AB-16 and/or AB-17.	OAC rule 3745-31-05(A)(3) (PTI 01-4245)	Particulate emissions (PE) shall not exceed 0.01 gr/dscf from either AB-17 or AB-16. PE shall not exceed 2.45 pounds per hour from AB-17 and AB-16 combined. Lead emissions shall not exceed 0.098 pound per hour from AB-17 and AB-16 combined. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-07(A)	See A.II.3-5 below. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule, from either AB-17 or AB-16.
	OAC rule 3745-17-11(B)	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.

2. Additional Terms and Conditions

- 2.a All the particulate emissions from this emissions unit shall be vented to baghouse AB-16 and/or baghouse AB-17.

2. Additional Terms and Conditions (continued)

- 2.b** Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.
- 2.c** Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

II. Operational Restrictions

- 1. The permittee shall maintain negative gauge pressure on the "A" & "B" Batch House to ensure that no particulate matter can escape the building.
- 2. The permittee shall close all doors to the "A" & "B" Batch House during unloading operations.
- 3. There shall be no visible emissions of fugitive dust from this emissions unit.

For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows, and roof monitors.

- 4. The permittee shall employ in the fabric filters and baghouses AB-16 and AB-17 only bags that are guaranteed by the manufacturer to maintain an outlet grain loading of not greater than 0.001 gr/dscf.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the non-stack egress points from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows, and roof monitors. 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- 2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from baghouse AB-16 and/or baghouse AB-17. 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- 3. The permittee shall maintain a record of the manufacturer's guarantee for the bags employed.

IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the building housing this this emissions unit (b) identify all days during which any visible particulate emissions were observed from baghouse AB-16 and/or baghouse AB-17 and (c) 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.
- 2. If the permittee employs any bags in any of the fabric filters and/or baghouses AB-16 and AB-17 that do not meet the requirements specified in A.II.4, the permittee shall notify the Ohio EPA, Central District Office within 30 days of the occurrence.

V. Testing Requirements

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

1.a Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

1.b Emission Limitations:

Particulate emissions (PE) shall not exceed 0.01 gr/dscf from either AB-17 or AB-16;
PE shall not exceed 2.45 pounds per hour from AB-17 and AB-16 combined; and
lead emissions shall not exceed 0.098 pound per hour from AB-17 and AB-16 combined.

Applicable Compliance Methods:

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 5 and 12, respectively.

1.c Emission Limitation:

The permittee shall maintain negative gauge pressure on the A & B Batch House to ensure that no particulate matter can escape the building.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 204. Compliance also may be demonstrated by the record keeping in A.III.1.

1.d Emission Limitation:

There shall be no visible emissions of fugitive dust from this emissions unit.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 22. Compliance also may be demonstrated by the record keeping in A.III.1.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: A Furnace (P004)
Activity Description: Glass Melting Furnace A with ESP

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
9.53 tons/hr (pull rate) natural gas-fired continuous glass melting furnace "A" with electrostatic precipitator (ESP)	OAC rule 3745-31-05(A)(3) (PTI 01-564)	Particulate emissions shall not exceed 4.73 pounds per hour. Nitrogen oxides emissions shall not exceed 180 pounds per hour. Lead emissions shall not exceed 0.96 pound per hour. The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(E), 3745-17-07(A), 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-11(B)(1)	See A.II.4 below. The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 60, Subpart CC	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(E)	Sulfur dioxide emissions shall not exceed 136 pounds per hour.
	OAC rule 3745-17-07(A)	See A.I.2.c below. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- 2.a** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-564.

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

- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-564.
- 2.c** The emissions unit's 136 lbs SO₂/hr emission limitation significantly exceeds the calculated maximum emission rate of 53.4 lbs SO₂/hr (calculated by multiplying the furnace's maximum throughput of 9.53 tons of glass pulled per hour by the emission factor of 5.6 lbs SO₂ per ton of glass [AP-42, Table 11.15-1, 1/95]). Therefore, no monitoring, record keeping or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The permittee shall vent all emissions to either the "A" electrostatic precipitator (ESP) or the "C" ESP (North Chamber) at all times this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the ESPs 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the ESPs serving this emissions unit 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.

IV. Reporting Requirements (continued)

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

V. Testing Requirements

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

- 1.a Emission Limitation:
Particulate emissions shall not exceed 4.73 pounds per hour; and
lead emissions shall not exceed 0.96 pound per hour.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 12 months of the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and Pb.
- iii. The following test method(s) shall be employed to demonstrate compliance with the PE and Pb allowable mass emission rate(s): 40 CFR Part 60, Appendix A, Methods 1 through 5 and 12 respectively. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

- 1.b Emission Limitation:
Sulfur dioxide emissions shall not exceed 136 pounds per hour.

Applicable Compliance Methods:

Compliance may be demonstrated by multiplying the furnace's maximum throughput of 9.53 tons of glass pulled per hour by the emission factor of 5.6 lbs per ton of glass (AP-42, Table 11.15-1, 1/95).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

- 1.c Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
Nitrogen oxides emissions shall not exceed 180 pounds per hour.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 12 months of the effective date of this permit and within 3.5 years after the effective date of this permit.
 - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx.
 - iii. The following test methods shall be employed to demonstrate compliance with the NOx allowable mass emission rate(s): 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
 - iv. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.
- 2.** Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: B Furnace (P005)
Activity Description: Glass Melting Furnace B with ESP

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
10.34 tons/hr (pull rate) natural gas-fired continuous glass melting furnace "B" with electrostatic precipitator (ESP)	OAC rule 3745-31-05(A)(3) (PTI 01-1001)	Particulate emissions shall not exceed 0.50 pound per ton of glass pulled. Particulate emissions shall not exceed 16.25 tons per year. Sulfur dioxide emissions shall not exceed 8.42 tons per year. Carbon monoxide emissions shall not exceed 6.53 tons per year. Organic compound emissions shall not exceed 9.8 tons per year. Lead emissions shall not exceed 0.68 ton per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-18-06(E), 3745-17-07(A), 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-11(B)(1)	See A.II.4 below. The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart CC	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(E)	Sulfur dioxide emissions shall not exceed 144 pounds per hour.
	OAC rule 3745-17-07(A)	See A.I.2.c below. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05(D) (PTI 01-1001)	Nitrogen oxides emissions shall not exceed 918.0 tons per year.
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-1001.

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

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-1001.

2.c The emissions unit's 144 lbs SO₂/hr emission limitation significantly exceeds the calculated maximum emission rate of 58 lbs SO₂/hr (calculated by multiplying the furnace's maximum throughput of 10.34 tons of glass pulled per hour by the emission factor of 5.6 lbs SO₂ per ton of glass [AP-42, Table 11.15-1, 1/95]). Therefore, no monitoring, record keeping or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The permittee shall vent all emissions to either the "B" ESP or the "C" ESP (North Chamber) at all times this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the ESPs 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the ESPs serving this emissions unit 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.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

- 1.a Emission Limitation:
Particulate emissions shall not exceed 16.25 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission rate (lb/ton of glass pulled) based on the most recent emission test that demonstrated compliance by the amount of glass pulled during the previous calendar year (tons/yr) and dividing by 2000 lbs/ton.

- 1.b Emission Limitation:
Particulate emissions shall not exceed 0.50 pound per ton of glass pulled.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 2.0 years after the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
- iii. The following test method(s) shall be employed to demonstrate compliance with the PE allowable mass emission rate(s): 40 CFR Part 60, Appendix A, Methods 1 through 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity that the unit will be operated at, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
Sulfur dioxide emissions shall not exceed 8.42 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 5.6 lbs per ton of glass (AP-42, Table 11.15-1, 1/95) by the amount of glass pulled in the previous calendar year (tons per year) and dividing by 2000 lbs per ton.

- 1.d** Emission Limitation:
carbon monoxide emissions shall not exceed 6.53 tons per year; and
organic compound emissions shall not exceed 9.8 tons per year.

Applicable Compliance Method:

Compliance with each emission limitation shall be demonstrated by multiplying the appropriate emission factor (lb/ton of glass pulled) determined through the emission testing below by the amount of glass pulled in the previous calendar year (tons per year) and dividing by 2000 lbs per ton.

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

- i. The emission testing shall be conducted within 2.0 years after the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for CO and OC.
- iii. The following test methods shall be employed to establish the emission factors (lb/ton of glass pulled) for CO and OC : 40 CFR Part 60, Appendix A, Methods 1 through 4, 10 and 18 respectively. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

- 1.e** Emission Limitation:
Lead emissions shall not exceed 0.68 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor (lb/ton of glass pulled) demonstrated through emission testing by the amount of glass pulled in the previous calendar year (tons/yr) and dividing by 2000 lbs per ton.

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

- i. The emission testing shall be conducted within 2.0 years after the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for lead.
- iii. The following test method(s) shall be employed to establish the emission factor (lb/ton of glass pulled) for lead: 40 CFR Part 60 Appendix A, Methods 1 through 4 and 12. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity that the unit will be operated at, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

1.f Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

1.g Emission Limitation:

Sulfur dioxide emissions shall not exceed 144 pounds per hour.

Applicable Compliance Methods:

Compliance may be demonstrated by multiplying the furnace's maximum throughput of 10.34 tons of glass pulled per hour by the emission factor of 5.6 lb per ton of glass (AP-42, 11.15-1, 1/95).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR, Part 60 Appendix A, Methods 1 through 4 and 6.

1.h Emission Limitation:

Nitrogen oxides emissions shall not exceed 918.0 tons per year.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated by multiplying the appropriate emission factor (lb/ton of glass pulled) determined through the emission testing below by the amount of glass pulled in the previous calendar year (tons per year) and dividing by 2000 lbs per ton.

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

- i. The emission testing shall be conducted within 2 years of the effective date of this permit and 6 months prior to permit expiration.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO_x.
- iii. The following test methods shall be employed to establish the emission factors (lb/ton of glass pulled) for NO_x : 40 CFR Part 60, Appendix A, Methods 1 through 4, and 7 respectively. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: C Furnace (P010)
Activity Description: Glass Melting Furnace C with ESP

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
11.33 tons/hr (pull rate) natural gas-fired continuous glass melting furnace "C" with double chambered electrostatic precipitator (ESP)	OAC rule 3745-31-05(A)(3) (PTI 01-2470)	<p>Particulate emissions shall not exceed 1.43 pounds per hour.</p> <p>Particulate emissions shall not exceed 0.14 pound per ton of glass pulled.</p> <p>Particulate <10 microns (PM-10) emissions shall not exceed 1.09 pounds per hour.</p> <p>Sulfur dioxide emissions shall not exceed 1.8 pounds per hour.</p> <p>Carbon monoxide emissions shall not exceed 2.1 pounds per hour.</p> <p>Organic compound emissions shall not exceed 3.1 pounds per hour.</p> <p>Lead emissions shall not exceed 0.12 pound per hour.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-21-08(B) and 3745-23-06(B).</p>
	OAC rule 3745-17-11(B)(1)	<p>See A.II.2 below.</p> <p>The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR, Part 60, Subpart CC	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(E)	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-31-05(D) (PTI 01-2470)	Nitrogen oxides emissions shall not exceed 208.3 pounds per hour.
		Nitrogen oxides emissions shall not exceed 20 pounds per ton of glass pulled.
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-2470.

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

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 01-2470.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. Particulate emissions from this emissions unit shall be vented to either the "C" ESP (North Chamber) or the "C" ESP (South Chamber) and shall be controlled by at least 99.5%.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the ESPs 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the ESPs serving this emissions unit 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.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

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

- 1.a Emission Limitations:
PE shall not exceed 1.43 pounds per hour; and
PE shall not exceed 0.14 pound per ton of glass pulled.

Applicable Compliance Method:

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

- i. The emission testing shall be conducted within 2.5 years after the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for PE: 40 CFR Part 60 Appendix A, Methods 1 through 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity that the unit will be operated at, unless otherwise specified or approved by the Ohio EPA, Central District Office.

- 1.b Emission Limitation:
Particulate matter < 10 microns (PM-10) emissions shall not exceed 1.09 pounds per hour.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR, Part 60 Appendix A, Methods 1 through 4 and 201.

V. Testing Requirements (continued)

- 1.c** Emission Limitations:
sulfur dioxide emissions shall not exceed 1.8 pounds per hour;
carbon monoxide emissions shall not exceed 2.1 pounds per hour;
organic compound emissions shall not exceed 3.1 pounds per hour; and
lead emissions shall not exceed 0.12 pound per hour.

Applicable Compliance Methods:

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

- i. The emission testing shall be conducted within 2.5 years after the effective date of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for sulfur dioxide, carbon monoxide, organic compounds, and lead.
- iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, 10, 18 and 12 respectively. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

- 1.d** Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

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

- 1.e** Emission Limitations:
Nitrogen oxides emissions shall not exceed 208.3 pounds per hour; and
nitrogen oxides emissions shall not exceed 20 pounds per ton of glass pulled.

Applicable Compliance Methods:

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

- i. The emission testing shall be conducted within 2.5 years from the effective date of this permit and within 6 months prior to permit expiration.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for nitrogen oxides.
- iii. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 respectively. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The tests shall be conducted while the emissions unit is operating at or near maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

V. Testing Requirements (continued)

2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: C Batch House (P011)

Activity Description: Transfer, Cullet silo, Batch Weigh and Mix, Batch Silos, Mixed Batch Feed, and Secondary Cullet Crushers, and Cullet Breaker Bars

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
"C" Batch House - raw material handling with several fabric filters that vent inside the batch-house	OAC rule 3745-31-05(A)(3) (PTI 01-2470)	Total particulate emissions shall not exceed 0.08 pound per hour.
		Total particulate emissions <10 microns (PM-10) shall not exceed 0.06 pound per hour.
		Total lead emissions shall not exceed 0.002 pound per hour.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-08(B)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
		See A.I.2.c below.

2. Additional Terms and Conditions

- 2.a All the particulate emissions from each operation and piece of equipment comprising this emissions unit shall be captured and vented to a fabric filter with a control efficiency of at least 99.5%.
- 2.b Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- 2.c Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

II. Operational Restrictions

1. The permittee shall employ in the fabric filters only bags that are guaranteed by the manufacturer to maintain an outlet grain loading of not greater than 0.001 gr/dscf.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filters 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain a record of the manufacturer's guarantee for the bags employed.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit 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.
2. If the permittee employs any bags in any of the fabric filters that do not meet the requirements specified in A.II.1, the permittee shall notify the Ohio EPA, Central District Office within 30 days of the occurrence.

V. Testing Requirements

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

- 1.a Emission Limitations:
Particulate emissions shall not exceed 0.08 pound per hour;
particulate emissions <10 microns (PM-10) shall not exceed 0.06 pound per hour; and
lead emissions shall not exceed 0.002 pound per hour.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR, Part 60 Appendix A, Methods 1 through 4, 5, 201 and 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: C Batch House-Receiving and Unloading (C Track Shed) (P012)
Activity Description: Raw materials Unloading & Receiving Area

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw materials unloading & receiving for "C" batch house	OAC rule 3745-31-05(A)(3) (PTI 01-2470)	See A.II.1-2 below.
	OAC rule 3745-17-08(B)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- Since this emissions unit is not located in an Appendix A area, pursuant to paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- Pursuant to paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) do not apply to this emissions unit.

II. Operational Restrictions

- This emissions unit shall be fully enclosed during operation with a capture efficiency of greater than 99%.
- There shall be no visible emissions of fugitive dust from this emissions unit.

For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows, and roof monitors.

- The permittee shall employ in the fabric filters and baghouses AB-16 and AB-17 only bags that are guaranteed by the manufacturer to maintain an outlet grain loading of not greater than 0.001 gr/dscf.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the non-stack egress points from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows, and roof monitors. 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. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which (a) identify all days during which any visible fugitive particulate emissions were observed from the non-stack egress points from the building housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Central District Office 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 limitations specified in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
There shall be no visible emissions of fugitive dust from this emissions unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

- 1.b Emission Limitation:
This emissions unit shall be fully enclosed during operation with a capture efficiency of greater than 99%.

Applicable Compliance Methods:

Compliance may be determined by the record keeping in Section A.III.1. It is assumed that if there are no visible emissions the capture efficiency requirement is being met.

If required, compliance shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 204.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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