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

12/31/03

RE: Proposed Title V Chapter 3745-77 Permit

01-25-04-0296
Techneglas, 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 Techneglas, Inc., has been created in Ohio EPA's State Air Resources System (STARS) on 12/31/03, for review by USEPA. This proposed action is identified in STARS as 3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact 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

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: 12/31/03	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: 01-25-04-0296 to:
Techneglas, Inc.
727 E. Jenkins Ave.
Columbus, OH 43207

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

F004 (Weighing & Batching)
Batch weighing and mixing equipment.

F005 (EP Pelletizer)
EP Dust pelletizer

P007 (Glass Melting Furnace H)
TV Glass Melting Furnace

P021 (Mold Cr Plating Tank #2)
Cr Plating Tank No. 2 with Emission Elimination Device

P022 (Mold Cr Plating Tank #1)
Cr Plating Tank No. 1 with Emission Elimination Device

P023 (RGM Pelletizer)
Residual Grinding Media Pelletizer with fabric filter control (with modification source became non-insignificant)

P901 (H Cullet Crusher)
Process

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

i. The date, place (as defined in the permit), and time of sampling or measurements.
ii. The date(s) analyses were performed.
iii. The company or entity that performed the analyses.
iv. The analytical techniques or methods used.
v. The results of such analyses.
vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

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

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

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

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

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

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

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

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

These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. OAC rule 3745-77-07(A)(3)(c) is not fully satisfied until the permittee addresses all other deviations of the federally enforceable requirements specified in the permit.

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

See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Written reports that identify all other deviations of the federally enforceable requirements contained in this permit, including the monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be

submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months.

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

These semi-annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Risk Management Plans

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

a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

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

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

4. Title IV Provisions

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

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

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(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. Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

17. Compliance Method Requirements

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

18. Insignificant Activities

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))

21. Permanent Shutdown of an Emissions Unit

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

If an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any monitoring, record keeping, reporting, or testing requirements, applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

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

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 <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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

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

a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii;

b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; and

c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

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

B004 - boiler #1; (permit to install 01-2626)
B005 - boiler #2; (permit to install 01-2626)
B006 - boiler #3; (permit to install 01-2626)
R002 - plasma spray unit;
R001 - spray booth;
Z001 - unloading operations;
Z004 - batch silo;
F002 - storage silos;
F003 - plant roadways and parking;
Z005 - H-0 lehr;
Z006 - H-1 lehr;
Z007 - H-3 lehr;
Z011 - parts cleaners;
Z012 - emergency fire pump;
B007 - sealing make-up unit;
B008 - CF make-up unit;
P011 - grit blaster #1;
P012 - grit blaster #2;
P013 - grit blaster #3;and
P014 - grit blaster #4.

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

B. State Only Enforceable Section

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

P009 - edge grinding;and
P015 - mold stripping line.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Weighing & Batching (F004)

Activity Description: Batch weighing and mixing equipment.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
weighing and batching operation controlled by two baghouses	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 21.13 pounds per hour from this emissions unit. See Section A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

2.a The permittee shall comply with the more restrictive requirement of either Table I or Figure II of OAC rule 3745-17-11. Until the initial emission test required in Section A.V.1.a is completed, this emissions unit is limited to the particulate emission rate established by Table I. The particulate emission limitation stated in this permit is based upon the emissions unit's maximum PWR listed in the Title V application.

2.b All particulate emissions shall be vented to the two baghouses during any operation of this emissions unit.

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the range of 0.5 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across each baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouses did not comply with the allowable range specified above. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

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 21.13 pounds per hour from this emissions unit.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable particulate emission limitation in accordance with the following requirements:

i. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit expiration.

ii. The following test methods shall be employed to demonstrate compliance with the allowable particulate emission limitation: Methods 1 through 5, 40 CFR Part 60, Appendix A.

iii. The test(s) shall be conducted while this emissions unit is operating at or near maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

iv. During the first emission test required pursuant to this term, the permittee shall also conduct emission tests at the inlets of the baghouses serving this emissions unit in order to determine the uncontrolled mass rate of emissions (UMRE) for the purpose of determining whether Figure II of OAC rule 3745-17-11 is applicable to this emissions unit.

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 emission 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.

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: EP Pelletizer (F005)

Activity Description: EP Dust pelletizer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
EP dust pelletizer controlled by a baghouse and ESP(s) - see Section A.I.2.a below.	OAC rule 3745-31-05(A)(3) (PTI# 01-3697)	Particulate emissions shall not exceed 0.5 pound per hour. Lead emissions shall not exceed 0.38 pound per hour. No visible particulate emissions from the baghouse stack serving this emissions unit. Visible particulate emissions shall not exceed 20%, as a six minute average, from the ESP stack serving this emissions unit. See A.2.b below
	OAC rule 3745-17-07(A)	The visible emission limitations specified in this rule are equivalent or less stringent than the visible emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)(1)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a All of the particulate emissions from the material handling portion of the emissions unit shall be vented to the baghouse and all of the particulate emissions from the pin mixer and dryer shall be vented to either electrostatic precipitator (ESP) #3, or ESPs #1 and #2 during any operation of this emissions unit.

2. Additional Terms and Conditions (continued)

2.b This emissions unit operates in conjunction with emissions unit P007, which also vents particulate emissions to the stack serving the ESP which controls particulate emissions from this emissions unit. Therefore, the visible particulate emissions limit for the stack serving the ESP controlling particulate from this emissions unit has been established through BAT to be equivalent to the visible particulate emissions limit applicable to emissions unit P007.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 0.5 to 7 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

2. 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 baghouse stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the visible particulate emissions;
b. the total duration of any visible particulate emission incident; and
c. any corrective actions taken to eliminate the visible particulate emissions.

3. 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 ESP(s) serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the visible particulate emissions;
b. the total duration of any visible particulate emission incident; and
c. any corrective actions taken to eliminate the visible particulate emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack serving 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.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the ESP(s) stack(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the 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:

V. Testing Requirements (continued)

1.a Emission Limitations:
Particulate emissions shall not exceed 0.5 pound per hour.
Lead emissions shall not exceed 0.38 pound per hour.

Applicable Compliance Method:
Compliance may be demonstrated based on the results of in-house emission testing for this emissions unit conducted on September 11, 1998 (0.00087 lb of PE/hr and 0.00013 lb Pb/hr).

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.

2. Emission Limitation:
No visible particulate emissions from any stack serving this emissions unit.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Glass Melting Furnace H (P007)

Activity Description: TV Glass Melting Furnace

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
natural gas-fired 480 tons per day continuous glass melting furnace "H" controlled by an electrostatic precipitator(s) (ESP(s))	OAC rule 3745-31-05(A)(3) (PTI# 01-8104)	Particulate emissions shall not exceed 8.33 pounds per hour and 36.49 tons per year. Lead emissions shall not exceed 1.61 pounds per hour and 7.1 tons per year. Nitrogen oxides emissions shall not exceed 146 pounds per hour and 639.5 tons per year. Organic compound emissions shall not exceed 9.1 pounds per hour and 39.9 tons per year. Carbon monoxide emissions shall not exceed 5.0 pounds per hour and 21.9 tons per year. Sulfur dioxide emissions shall not exceed 9.59 pounds per hour and 42.0 tons per year. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart CC. See Section A.II.2 below.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	40 CFR Part 60, Subpart CC	Particulate emissions shall not exceed 0.5 pound per ton of glass pulled.
	OAC rule 3745-18-06(E)(2)	The hourly emission limitation specified in this rule is less stringent than the hourly 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 3745-21-08(B)	See Section A.I.2.a below.
	OAC rule 3745-23-06(B)	See Section 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 01-8104.

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 01-8104.

II. Operational Restrictions

1. Except for fuel oil applied to the batch materials for purposes of dust suppression, the permittee shall burn only natural gas in this emissions unit.

2. All lead emissions from this emissions unit shall be vented to either ESP #3, or ESPs #1 and #2 and shall be controlled by at least 90% at pull rates greater than 320 tons per day.

3. The permittee shall vent all emissions to either ESP #3 or ESPs #1 and #2 at all times when 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 ESP(s) serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the visible particulate emissions;
b. the total duration of any visible particulate emissions incident; and
c. any corrective actions taken to eliminate the visible particulate 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 ESP(s) serving 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.

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. This requirement does not apply to fuel oil applied to the batch materials for purposes of dust suppression. 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:
Particulate emissions shall not exceed 0.5 pound per ton of glass pulled.
Particulate emissions shall not exceed 8.33 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 approximately 6 months after the effective date of this permit and within 6 months of the expiration of this permit.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable particulate emission limitations.

iii. The following test methods shall be employed to demonstrate compliance with the allowable particulate emission limitations and control efficiency limitation: 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 its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

v. The glass pull rate during the test(s) shall also be recorded.

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 emission 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.

V. Testing Requirements (continued)

1.b Emission Limitations:
Sulfur dioxide emissions shall not exceed 9.59 pounds per hour.
Nitrogen oxides emissions shall not exceed 146 pounds per hour.
Carbon monoxide emissions shall not exceed 5.0 pounds per hour.
Organic compound emissions shall not exceed 9.1 pounds 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 approximately 6 months after the effective date of this permit.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable emission limitations for sulfur dioxide, nitrogen oxides, lead, carbon monoxide, and organic compounds.

iii. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations: 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C, 7E, 10, and 25 for sulfur dioxide, nitrogen oxides, lead, carbon monoxide, and organic compounds, 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 its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

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 emission 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.

1.c Emission Limitations:
Organic compound emissions shall not exceed 39.9 tons per year.
Carbon monoxide emissions shall not exceed 21.9 tons per year.
Lead emissions shall not exceed 7.1 tons per year.
Particulate emissions shall not exceed 36.49 tons per year.
Nitrogen oxides emissions shall not exceed 639.5 tons per year.
Sulfur dioxide emissions shall not exceed 42.0 tons per year.

Applicable Compliance Method:
Compliance with the annual limitations shall be assumed as long as compliance with the hourly limitations is maintained (each annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000 pounds per ton).

V. Testing Requirements (continued)

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

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

1.e Emission Limitations:
Lead emissions shall not exceed 1.61 pounds per hour; Lead emissions from this emissions unit shall be controlled by at least 90% at pull rates greater than 320 tons per day..

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 approximately 6 months after the effective date of this permit and within 6 months of the expiration of this permit.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable lead emission limitations.

iii. The following test methods shall be employed to demonstrate compliance with the allowable lead emission limitations and control efficiency limitation: 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 lead emission tests shall be conducted at both the inlet and outlet of the control device(s) to determine compliance with the control efficiency requirement.

v. 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.

vi. The glass pull rate during the test(s) shall also be recorded.

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 emission 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.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mold Cr Plating Tank #2 (P021)

Activity Description: Cr Plating Tank No. 2 with Emission Elimination Device

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
hard chrome electroplating tank #2 with emission elimination device (EED)	OAC rule 3745-31-05(A)(3) (PTI# 01-8063)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 63 Subpart N and OAC rule 3745-17-07(A).
	40 CFR Part 63, Subpart N	See A.I.2.a and A.V.1.a below.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to 40 CFR Part 63, Subpart N.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

2.a The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere from the chrome electroplating tank to exceed 0.015 mg/dscm.

II. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including the associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the approved operation and maintenance plan.

II. Operational Restrictions (continued)

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Ohio EPA, Central District Office, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Ohio EPA, Central District Office may require that the permittee make changes to the operation and maintenance plan if that plan:

a. does not address a malfunction that has occurred;

b. fails to provide for the operation of the emissions unit, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution practices; or

c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

4. The permittee shall implement the Operation and Maintenance Plan dated November 30, 1999 as approved by USEPA in a letter dated December 2, 1999. The plan is hereby incorporated by reference into this Title V permit and includes the following elements:

4.a The plan shall specify the operation and maintenance criteria for the affected emissions unit, the EED , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment.

4.b The plann shall specify the work practice standards for the EED as outlined in the Techneglas letter dated November 30, 1999, required under 63.342(f)(3)(C) and 63.343(d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following elements:

i. Prior to initiating the plating process, check plating bath for proper temperature range and note temperature on operations logsheet.

ii. Lower the Emission Elimination Device (EED) onto the plating tank, making sure the clamps are seated properly against it. If clamps fail to operate properly, follow corrective action procedure in 4.b.vii below.

iii. Once per day for each tank in which plating is performed that day, conduct a positive pressure test by lightly tapping on one membrane on the EED while plating is occurring. The membrane should be taut and bowed slightly upward, and tapping on one of the membranes should result in movement of other parts of the same membrane or of the other membrane(s). Record test and results on the Mold Plating logsheet for each tank, as applicable. If positive pressure cannot be verified, follow the corrective action procedure in step 4.b.vii.(b) below.

iv. Once per day for each tank in which plating is performed that day, observe seals and membranes for leaks and record observations on the Mold Plating logsheet. If leaks are observed at any time in the plating process, switch off the rectifier and follow the corrective action procedure in step 4.b.vii.(a) below.

v. After the plating process is complete, the purge cycle will activate automatically. The EED may not be raised until the timer completes the purge cycle. If the purge cycle fails to activate, follow the corrective action procedure in step 4.b.vii.(c) below.

II. Operational Restrictions (continued)

vi. After making certain current has been shut off from the rectifier, open the lid fully to access the plating tank. If appreciable mist's present above the bath after lifting the lid, complete the corrective action in accordance with step 4.b.vii.(c) before performing any further plating in the affected tank.

vii. Corrective Action Procedures:

(a) Leaks of Mist/Smoke from Tank or Purge System -- If any leaks of mist or smoke are detected at any time from or around the plating tank(s) or purge cycle system, immediately switch off the current from the rectifier for the affected tank, and locate the source of the leak. Replace or repair item(s) causing leak. Note the nature of the corrective action taken and the date of those actions on the maintenance logsheet. Do not recommence plating in the affected tank(s) until leaks have been repaired.

(b) No Positive Pressure -- If positive pressure on the EED membranes cannot be verified by tapping on one of the membranes, immediately turn off the rectifier for the affected tank, determine the cause of the loss of positive pressure, and repair or replace components as necessary. Note the nature of the corrective actions taken and the date of those actions on the maintenance logsheet. Do not recommence plating in the affected tank until causes have been identified and corrected.

(c) Failure of the Purge Cycle System -- If the purge cycle system fails to operate, or if appreciable mist is present above the bath after the lid is opened following completion of the purge cycle, check operation of purge system, including:

- power supply (fuses, disconnects, etc.);
- timers, relays, switches, etc. for proper operation or setpoint;
- blower rotation, if motor is functioning;

- disconnected piping or leaks (holes, cuts, etc.) in piping; and
- condition of purge system filter.

Replace, reset, or repair parts as necessary with appropriate materials. Note the nature of the corrective actions taken and the date of those actions on the maintenance logsheet. Do not use affected tanks until causes of problems have been identified and corrected.

(d) Failure of Lid Clamps to Operate Properly. If clamps fail to apply pressure at the start of the plating cycle, or fail to release following the end of the purge cycle, check the following:

- hydraulic system controls and mechanical equipment;
- power supply;
- mechanical and electrical setpoints on clamps; and
- mechanical equipment for proper function.

Replace or repair components as necessary before starting or continuing plating in the affected tank. Note the nature of the corrective actions taken and the date of those action on the maintenance logsheet.

4.c Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.

4.d A systematic procedure for identifying malfunctions of process equipment, EEDs, and process and control system monitoring equipment, and for implementing corrective actions to address such malfunctions.

4.e If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs.

4.f If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Ohio EPA, Central District Office.

II. Operational Restrictions (continued)

4.g The permittee shall keep the written operation and maintenance plan available for inspection, upon request, by the Ohio EPA, Central District Office for the life of the emissions unit. If the operation and maintenance plan is revised, the permittee shall keep previous versions of the plan available for inspection, upon request, by the Ohio EPA, Central District Office for a period of 5 years after each revision to the plan.

4.h The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the operation and maintenance plan requirements as long as these plans result in implementation of corrective actions to address malfunctions.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall follow the continuous compliance monitoring program as outlined in the Techneglas letter of November 30, 1999 and as approved in a USEPA letter of December 2, 1999. The continuous compliance monitoring program includes the following:

1.a Techneglas shall monitor and record the continued integrity of the EED seals and membranes. The two monitoring procedures listed below shall be conducted early in the plating cycle during each day in which electroplating occurs in each tank, in accordance with A.II.4.b.iii.

i. Induce an external pressure to the membrane, which should be bulged slightly upward due to the positive pressure existing inside the EED. This can be done by manually tapping the bulged membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membranes. This should result in a movement at this and/or the other membrane when the system is adequately sealed and the membranes are intact. In the absence of such movement or rebound of the membrane indicating a lack of adequate seal or membrane integrity, the corrective action procedure in A.II.4.b.vii. shall be followed.

ii. Visually inspect lid seals and membranes, and the areas immediately above and around those seals and membranes to determine whether there are any leaks of chrome mist from the tank. If leaks are detected, the corrective action procedure in A.II.4.b.vii shall be followed

1.b The following inspection and maintenance activities shall be performed on the schedule indicated. Performance of these checks, the results, and any repairs or maintenance performed should be recorded on the maintenance checklist:

i. Visually inspect lid seals and membranes for integrity once per week; repair or replace as needed.

ii. Drain the purge cycle system once per week during each week in which a tank is operated.

iii. Visually inspect membranes for perforations using a light source that adequately illuminates the membrane once per month; repair or replace as needed.

iv. Visually inspect all clamps for proper operation once per month; repair or replace as needed.

v. Clean or replace filters of the purge unit, once per month.

vi. Visually inspect piping to, piping from and body of purge unit to ensure there are no leaks and no evidence of chemical attack, once every 3 months; repair or replace components as needed.

vii. Perform smoke test and visually inspect the EED membrane, seals and conduit connections for leaks, once every 6 months; repair or replace any components as needed.

2. Continued operation of the affected source after observations indicating lack of either adequate seals or membrane integrity shall be considered as an indication of a malfunction and potential noncompliance with 40 CFR Part 63, Subpart N

3. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

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

4. The permittee also shall maintain the following records:

a. Inspection records for the EEDs and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of this permit have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

b. Records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment.

c. Records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, and monitoring equipment.

d. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan.

f. Test reports documenting results of all performance tests.

g. All measurements as may be necessary to determine the conditions of performance tests.

h. Records of monitoring data that are used to demonstrate compliance with the standard including the date and time the data are collected.

i. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, EEDs, or monitoring equipment.

j. The total process operating time of the emissions unit during the reporting period.

k. All documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

IV. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Ohio, EPA Central District Office and shall be sent by U.S. mail, fax or by another courier

a. Submittals sent by U.S. mail shall be postmarked on or before the specified date.

b. Submittals sent by other methods shall be received by the Ohio EPA, Central District Office on or before the specified date.

2. The permittee shall submit a Notification of Performance Test to the Ohio EPA, Central District Office at least 30 calendar days before any performance test is scheduled. In the event that the permittee is unable to conduct the performance as scheduled, the provisions of 63.7(b)(2) of 40 CFR Part 63, Subpart A apply.

IV. Reporting Requirements (continued)

3. The permittee shall submit a Notification of Compliance Status to the Ohio, EPA Central District Office 90 days after any performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each affected emissions unit:

a. The applicable emission limitations and the methods that were used to determine compliance with this limitation.

b. The test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit.

c. For each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limitation.

d. The methods that will be used to determine continuous compliance.

e. A description of the air pollution control technique used for each emission point.

f. A statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards.

g. A statement by the permittee as to whether the emissions unit is in compliance.

4. The permittee shall report to the Ohio EPA, Central District Office the results of any performance test conducted. The report shall be submitted no later than 30 days following the completion of the performance test, and shall be submitted as part of the Notification of Compliance Status report required by this section.

5. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to be retained on-site to document the ongoing compliance status of the emissions unit. This report shall include the following:

a. The company name and address of the emissions unit.

b. An identification of the operating parameter that is monitored for compliance determination.

c. The relevant emission limitation for the emissions unit, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the Notification of Compliance Status required by this section.

d. A description of the type of process performed in the emissions unit.

e. The beginning and ending dates of the reporting period.

f. The total operating time of the emissions unit during the reporting period.

g. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total emissions unit operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes.

h. A certification by a responsible official that the work practice standards in this permit were followed in accordance with the approved operation and maintenance plan for the emissions unit.

IV. Reporting Requirements (continued)

i. If the approved operation and maintenance plan required by this permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by the work practices in this permit.

j. A description of any changes in monitoring, processes, or controls since the last reporting period.

k. The name, title, and signature of the responsible official who is certifying the accuracy of the report.

l. The date of the report.

6. The permittee shall submit semiannual reports if the following conditions are met:

a. the total duration of excess emissions is 1% or greater of the total operating time for the reporting period; and

b. the total duration of malfunctions of the air pollution control device and monitoring equipment is 5% or greater of the total operating time.

7. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency is approved by the Ohio EPA, Central District Office.

8. The Ohio EPA, Central District Office may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

9. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site if all of the following conditions are met:

a. For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected emissions unit is in compliance with the relevant emission limitation.

b. The permittee continues to comply with all applicable record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit.

c. The Ohio EPA, Central District Office does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

i. The permittee notifies the Ohio EPA, Central District Office in writing of its intentions to make such a change. The Ohio EPA, Central District Office may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions unit's compliance date, whichever is shorter. Records subject to review include performance test results, monitoring data, and evaluations of the permittee's conformance with emission limitations and work practice standards. If the permittee's request is disapproved, the Ohio EPA, Central District Office will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limitation, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limitation for another full year, the permittee may again request approval to reduce the reporting frequency.

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:
Total chromium in the exhaust gases discharged to the atmosphere from the chrome electroplating tank shall not exceed 0.015 mg/dscm.

Applicable Compliance Method:
i. The permittee has conducted an initial performance test using the qualitative test method (smoke test) approved by USEPA in the letter of December 2, 1999. The permittee shall conduct additional emission testing using the smoke test at 6-month intervals.

ii. Not later than 30 days prior to the proposed initial 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).

iii. The permittee shall submit performance test results of the additional testing in a test report that contains the following information:

(a) the operating temperature of the chrome plating solution;

(b) the time of the test(s);

(c) a description of smoke generating device and any modifications to standard procedures;

(d) test results;

(e) quality assurance procedures and results;

(f) records of operating conditions during testing; and

(g) any other information required by the test method.

2. The results of the performance testing specified in A.V.1.a may be used to demonstrate compliance if:

a. The test methods and procedures identified in this permit were used during the performance test.

b. The performance test was conducted under representative conditions.

c. The performance test report contains the information specified in 2.a. and 2.b.

3. 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 emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mold Cr Plating Tank #1 (P022)

Activity Description: Cr Plating Tank No. 1 with Emission Elimination Device

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
hard chrome electroplating tank #1 with emission elimination device (EED)	OAC rule 3745-31-05(A)(3) (PTI# 01-8063)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 63 Subpart N and OAC rule 3745-17-07(A).
	40 CFR Part 63, Subpart N	See A.I.2.a and A.V.1.a below.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to 40 CFR Part 63, Subpart N.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

2.a The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere from the chrome electroplating tank to exceed 0.015 mg/dscm.

II. Operational Restrictions

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including the associated emission elimination devices (EEDs) and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.

2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the approved operation and maintenance plan.

II. Operational Restrictions (continued)

3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Ohio EPA, Central District Office, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emissions unit. Based on this information, the Ohio EPA, Central District Office may require that the permittee make changes to the operation and maintenance plan if that plan:

a. does not address a malfunction that has occurred;

b. fails to provide for the operation of the emissions unit, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution practices; or

c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

4. The permittee shall implement the Operation and Maintenance Plan dated November 30, 1999 as approved by USEPA in a letter dated December 2, 1999. The plan is hereby incorporated by reference into this Title V permit and includes the following elements:

4.a The plan shall specify the operation and maintenance criteria for the affected emissions unit, the EED , and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment.

4.b The plann shall specify the work practice standards for the EED as outlined in the Techneglas letter dated November 30, 1999, required under 63.342(f)(3)(C) and 63.343(d) of 40 CFR Part 63, Subpart N, for an air pollution control device not listed. These work practice standards shall include the following elements:

i. Prior to initiating the plating process, check plating bath for proper temperature range and note temperature on operations logsheet.

ii. Lower the Emission Elimination Device (EED) onto the plating tank, making sure the clamps are seated properly against it. If clamps fail to operate properly, follow corrective action procedure in 4.b.vii below.

iii. Once per day for each tank in which plating is performed that day, conduct a positive pressure test by lightly tapping on one membrane on the EED while plating is occurring. The membrane should be taut and bowed slightly upward, and tapping on one of the membranes should result in movement of other parts of the same membrane or of the other membrane(s). Record test and results on the Mold Plating logsheet for each tank, as applicable. If positive pressure cannot be verified, follow the corrective action procedure in step 4.b.vii.(b) below.

iv. Once per day for each tank in which plating is performed that day, observe seals and membranes for leaks and record observations on the Mold Plating logsheet. If leaks are observed at any time in the plating process, switch off the rectifier and follow the corrective action procedure in step 4.b.vii.(a) below.

v. After the plating process is complete, the purge cycle will activate automatically. The EED may not be raised until the timer completes the purge cycle. If the purge cycle fails to activate, follow the corrective action procedure in step 4.b.vii.(c) below.

II. Operational Restrictions (continued)

vi. After making certain current has been shut off from the rectifier, open the lid fully to access the plating tank. If appreciable mist's present above the bath after lifting the lid, complete the corrective action in accordance with step 4.b.vii.(c) before performing any further plating in the affected tank.

vii. Corrective Action Procedures:

(a) Leaks of Mist/Smoke from Tank or Purge System -- If any leaks of mist or smoke are detected at any time from or around the plating tank(s) or purge cycle system, immediately switch off the current from the rectifier for the affected tank, and locate the source of the leak. Replace or repair item(s) causing leak. Note the nature of the corrective action taken and the date of those actions on the maintenance logsheet. Do not recommence plating in the affected tank(s) until leaks have been repaired.

(b) No Positive Pressure -- If positive pressure on the EED membranes cannot be verified by tapping on one of the membranes, immediately turn off the rectifier for the affected tank, determine the cause of the loss of positive pressure, and repair or replace components as necessary. Note the nature of the corrective actions taken and the date of those actions on the maintenance logsheet. Do not recommence plating in the affected tank until causes have been identified and corrected.

(c) Failure of the Purge Cycle System -- If the purge cycle system fails to operate, or if appreciable mist is present above the bath after the lid is opened following completion of the purge cycle, check operation of purge system, including:

- power supply (fuses, disconnects, etc.);
- timers, relays, switches, etc. for proper operation or setpoint;
- blower rotation, if motor is functioning;

- disconnected piping or leaks (holes, cuts, etc.) in piping; and
- condition of purge system filter.

Replace, reset, or repair parts as necessary with appropriate materials. Note the nature of the corrective actions taken and the date of those actions on the maintenance logsheet. Do not use affected tanks until causes of problems have been identified and corrected.

(d) Failure of Lid Clamps to Operate Properly. If clamps fail to apply pressure at the start of the plating cycle, or fail to release following the end of the purge cycle, check the following:

- hydraulic system controls and mechanical equipment;
- power supply;
- mechanical and electrical setpoints on clamps; and
- mechanical equipment for proper function.

Replace or repair components as necessary before starting or continuing plating in the affected tank. Note the nature of the corrective actions taken and the date of those action on the maintenance logsheet.

4.c Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.

4.d A systematic procedure for identifying malfunctions of process equipment, EEDs, and process and control system monitoring equipment, and for implementing corrective actions to address such malfunctions.

4.e If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs.

4.f If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Ohio EPA, Central District Office.

II. Operational Restrictions (continued)

4.g The permittee shall keep the written operation and maintenance plan available for inspection, upon request, by the Ohio EPA, Central District Office for the life of the emissions unit. If the operation and maintenance plan is revised, the permittee shall keep previous versions of the plan available for inspection, upon request, by the Ohio EPA, Central District Office for a period of 5 years after each revision to the plan.

4.h The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the operation and maintenance plan requirements as long as these plans result in implementation of corrective actions to address malfunctions.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall follow the continuous compliance monitoring program as outlined in the Techneglas letter of November 30, 1999 and as approved in a USEPA letter of December 2, 1999. The continuous compliance monitoring program includes the following:

1.a Techneglas shall monitor and record the continued integrity of the EED seals and membranes. The two monitoring procedures listed below shall be conducted early in the plating cycle during each day in which electroplating occurs in each tank, in accordance with A.II.4.b.iii.

i. Induce an external pressure to the membrane, which should be bulged slightly upward due to the positive pressure existing inside the EED. This can be done by manually tapping the bulged membrane downwards. By inducing external pressure on a segment of membrane, the balance of positive pressure is shifted to other part of the same membrane and/or to the other membranes. This should result in a movement at this and/or the other membrane when the system is adequately sealed and the membranes are intact. In the absence of such movement or rebound of the membrane indicating a lack of adequate seal or membrane integrity, the corrective action procedure in A.II.4.b.vii. shall be followed.

ii. Visually inspect lid seals and membranes, and the areas immediately above and around those seals and membranes to determine whether there are any leaks of chrome mist from the tank. If leaks are detected, the corrective action procedure in A.II.4.b.vii shall be followed

1.b The following inspection and maintenance activities shall be performed on the schedule indicated. Performance of these checks, the results, and any repairs or maintenance performed should be recorded on the maintenance checklist:

i. Visually inspect lid seals and membranes for integrity once per week; repair or replace as needed.

ii. Drain the purge cycle system once per week during each week in which a tank is operated.

iii. Visually inspect membranes for perforations using a light source that adequately illuminates the membrane once per month; repair or replace as needed.

iv. Visually inspect all clamps for proper operation once per month; repair or replace as needed.

v. Clean or replace filters of the purge unit, once per month.

vi. Visually inspect piping to, piping from and body of purge unit to ensure there are no leaks and no evidence of chemical attack, once every 3 months; repair or replace components as needed.

vii. Perform smoke test and visually inspect the EED membrane, seals and conduit connections for leaks, once every 6 months; repair or replace any components as needed.

2. Continued operation of the affected source after observations indicating lack of either adequate seals or membrane integrity shall be considered as an indication of a malfunction and potential noncompliance with 40 CFR Part 63, Subpart N

3. The permittee shall fulfill all record keeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.

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

4. The permittee also shall maintain the following records:

a. Inspection records for the EEDs and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of this permit have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

b. Records of all maintenance performed on the emissions unit, EEDs, and monitoring equipment.

c. Records of the occurrence, duration, and cause (if known) of each malfunction of process, EEDs, and monitoring equipment.

d. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan.

e. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan.

f. Test reports documenting results of all performance tests.

g. All measurements as may be necessary to determine the conditions of performance tests.

h. Records of monitoring data that are used to demonstrate compliance with the standard including the date and time the data are collected.

i. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, EEDs, or monitoring equipment.

j. The total process operating time of the emissions unit during the reporting period.

k. All documentation supporting the notifications and reports as outlined in the Reporting Requirements of this permit and 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

IV. Reporting Requirements

1. The permittee shall fulfill all reporting requirements as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the Ohio, EPA Central District Office and shall be sent by U.S. mail, fax or by another courier

a. Submittals sent by U.S. mail shall be postmarked on or before the specified date.

b. Submittals sent by other methods shall be received by the Ohio EPA, Central District Office on or before the specified date.

2. The permittee shall submit a Notification of Performance Test to the Ohio EPA, Central District Office at least 30 calendar days before any performance test is scheduled. In the event that the permittee is unable to conduct the performance as scheduled, the provisions of 63.7(b)(2) of 40 CFR Part 63, Subpart A apply.

IV. Reporting Requirements (continued)

3. The permittee shall submit a Notification of Compliance Status to the Ohio, EPA Central District Office 90 days after any performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification shall list for each affected emissions unit:

a. The applicable emission limitations and the methods that were used to determine compliance with this limitation.

b. The test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit.

c. For each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limitation.

d. The methods that will be used to determine continuous compliance.

e. A description of the air pollution control technique used for each emission point.

f. A statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards.

g. A statement by the permittee as to whether the emissions unit is in compliance.

4. The permittee shall report to the Ohio EPA, Central District Office the results of any performance test conducted. The report shall be submitted no later than 30 days following the completion of the performance test, and shall be submitted as part of the Notification of Compliance Status report required by this section.

5. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to be retained on-site to document the ongoing compliance status of the emissions unit. This report shall include the following:

a. The company name and address of the emissions unit.

b. An identification of the operating parameter that is monitored for compliance determination.

c. The relevant emission limitation for the emissions unit, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the Notification of Compliance Status required by this section.

d. A description of the type of process performed in the emissions unit.

e. The beginning and ending dates of the reporting period.

f. The total operating time of the emissions unit during the reporting period.

g. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total emissions unit operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes.

h. A certification by a responsible official that the work practice standards in this permit were followed in accordance with the approved operation and maintenance plan for the emissions unit.

IV. Reporting Requirements (continued)

i. If the approved operation and maintenance plan required by this permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by the work practices in this permit.

j. A description of any changes in monitoring, processes, or controls since the last reporting period.

k. The name, title, and signature of the responsible official who is certifying the accuracy of the report.

l. The date of the report.

6. The permittee shall submit semiannual reports if the following conditions are met:

a. the total duration of excess emissions is 1% or greater of the total operating time for the reporting period; and

b. the total duration of malfunctions of the air pollution control device and monitoring equipment is 5% or greater of the total operating time.

7. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency is approved by the Ohio EPA, Central District Office.

8. The Ohio EPA, Central District Office may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.

9. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site if all of the following conditions are met:

a. For 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected emissions unit is in compliance with the relevant emission limitation.

b. The permittee continues to comply with all applicable record keeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit.

c. The Ohio EPA, Central District Office does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:

i. The permittee notifies the Ohio EPA, Central District Office in writing of its intentions to make such a change. The Ohio EPA, Central District Office may review information concerning the facility's previous performance history during the 5-year record keeping period prior to the intended change, or the record keeping period since the emissions unit's compliance date, whichever is shorter. Records subject to review include performance test results, monitoring data, and evaluations of the permittee's conformance with emission limitations and work practice standards. If the permittee's request is disapproved, the Ohio EPA, Central District Office will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limitation, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limitation for another full year, the permittee may again request approval to reduce the reporting frequency.

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:
Total chromium in the exhaust gases discharged to the atmosphere from the chrome electroplating tank shall not exceed 0.015 mg/dscm.

Applicable Compliance Method:
i. The permittee has conducted an initial performance test using the qualitative test method (smoke test) approved by USEPA in the letter of December 2, 1999. The permittee shall conduct additional emission testing using the smoke test at 6-month intervals.

ii. Not later than 30 days prior to the proposed initial 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).

iii. The permittee shall submit performance test results of the additional testing in a test report that contains the following information:

(a) the operating temperature of the chrome plating solution;

(b) the time of the test(s);

(c) a description of smoke generating device and any modifications to standard procedures;

(d) test results;

(e) quality assurance procedures and results;

(f) records of operating conditions during testing; and

(g) any other information required by the test method.

2. The results of the performance testing specified in A.V.1.a may be used to demonstrate compliance if:

a. The test methods and procedures identified in this permit were used during the performance test.

b. The performance test was conducted under representative conditions.

c. The performance test report contains the information specified in 2.a. and 2.b.

3. 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 emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RGM Pelletizer (P023)

Activity Description: Residual Grinding Media Pelletizer with fabric filter control (with modification source became non-insignificant)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
residual grinding media (RGM) pelletizer with pneumatic conveyor, vibrating screen, dryer, and storage bin vented to a fabric filter	OAC rule 3745-31-05(A)(3) (PTI# 01-8116)	Particulate stack emissions shall not exceed 0.58 pound per hour and 2.55 tons per year. Lead stack emissions shall not exceed 0.136 pound per hour and 0.596 ton per year. See Sections A.I.2.a and A.I.2.b below. Visible particulate emissions from any stack serving this emissions unit shall not exceed 5% opacity, as a 6-minute average. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible fugitive particulate emissions. See Section A.I.2.c below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).
	OAC rule 3745-17-08(B)	The control measures specified by this rule are equivalent to or less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	Visible fugitive particulate emissions from the egress points of the building enclosing this emissions unit shall not exceed 20% opacity, as a 3-minute average.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A)	The visible particulate emission limitations specified in this rule are less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a The pound per hour and ton per year particulate and lead stack emission limitations were established for permit to install purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.

2.b The emissions from the RGM dryer, pelletizer dryers, storage silo and vibrating screen shall be vented to a fabric filter that achieves an outlet emission rate of no greater than 0.02 grain per dry standard cubic foot of exhaust gases.

2.c The permittee shall process RGM during drying, screening and pelletizing in a manner sufficient to eliminate or minimize visible fugitive particulate emissions to no greater than 20% opacity, as a 3-minute average.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 3 to 14 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals with any modifications deemed necessary by the permittee.

2. The permittee shall collect and record the following information for each day:

a. the pressure drop across the fabric filter once per shift, whenever the emissions unit is in operation; and

b. any time periods when the fabric filter was not in service, when the emissions unit was in operation.

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

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions (excluding uncombined water vapor) from the stack serving this emissions unit and from the RGM building enclosures. The presence or absence of any visible particulate emissions shall be recorded electronically or in an operations log. Separate records shall be kept for the presence or absence of visible particulate emissions from the stack and from the building enclosures.

If visible particulate emissions are observed, the permittee shall also record the following:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations; and

c. if the emissions are not representative of normal operations:

i. the cause of the abnormal emissions;

ii. the total duration of any abnormal visible particulate emission incident; if known and

iii. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports of the following:

a. all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above;

b. any time periods when the fabric filter was not in service when the emissions unit was in operation; and

c. all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and from the RGM building enclosures and a description of any corrective actions taken to eliminate or minimize the abnormal visible particulate emissions.

All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

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 0.58 pound per hour.

Applicable Compliance Method:
Compliance may be determined by multiplying the manufacturer's guaranteed emission factor (0.02 gr/dscf) by the maximum air flow rate of the capture system as follows:

0.02 gr/dscf * 3,400 dscf/min * 60 min/hr * 1 lb/7,000 gr = 0.58 lb PE/hr

Emission testing to demonstrate compliance with the manufacturer's guaranteed emission factor of 0.02 gr/dscf is specified in Section A.V.1.c.

1.b Emission Limitation:
Particulate emissions shall not exceed 2.55 tons per year.

Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000 pounds per ton).

V. Testing Requirements (continued)

1.c Emission Limitations:
The fabric filter shall achieve an outlet emission rate of no greater than 0.02 grain per dry standard cubic foot of exhaust gases.
Lead emissions shall not exceed 0.136 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 6 months prior to permit expiration.

ii. The emission testing shall be conducted to demonstrate compliance with the particulate and lead emission limitations.

iii. The following test method(s) shall be employed to demonstrate compliance: Methods 1through 5 and 12 of 40 CFR Part 60, Appendix A for particulate and lead, 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.

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 emission 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.

1.d Emission Limitation:
Lead emissions shall not exceed 0.596 ton year

Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000 pounds per ton).

1.e Emission Limitation:
Visible fugitive particulate emissions from building enclosures during drying, screening and conveying of RGM shall not exceed 20% opacity, as a 3-minute average.

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

V. Testing Requirements (continued)

1.f Emission Limitation:
Visible particulate emissions from any stack serving this emissions unit shall not exceed 5% opacity, as a 6-minute average.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
residual grinding media (RGM) pelletizer with pneumatic conveyor, vibrating screen, dryer, and storage bin vented to a fabric filter		

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: H Cullet Crusher (P901)

Activity Description: Process

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
H cullet crusher controlled by a baghouse	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 40.3 pounds per hour from this emissions unit. See Section A.I.2.a below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

2.a The permittee shall comply with the more restrictive requirement of either Table I or Figure II of OAC rule 3745-17-11. Until the initial emission test required in Section A.V.1.a is completed, this emissions unit is limited to the particulate emission rate established by Table I. The particulate emission limitation stated in this permit is based upon the emissions unit's maximum PWR listed in the Title V application.

2.b All particulate emissions shall be vented to the baghouse during any operation of this emissions unit.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 0.5 to 7 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.

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 40.3 pounds per hour.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, emission testing for this emissions unit to demonstrate compliance with the allowable particulate emission limitation for particulates in accordance with the following requirements:

i. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit expiration.

ii. The following test methods shall be employed to demonstrate compliance with the allowable particulate emission limitation: Methods 1 through 5, 40 CFR Part 60, Appendix A.

iii. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

iv. During the first emission test required pursuant to this term, the permittee shall also conduct emission tests at the inlet of the baghouse serving this emissions unit in order to determine the uncontrolled mass rate of emissions (UMRE) for the purpose of determining whether Figure II of OAC rule 3745-17-11 is applicable to this emissions unit.

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 emission 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.

1.b Emissions Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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