



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

12/30/99

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

04-87-01-0012
Libbey-Owens-Ford Co.
Charles V. Baumgartner Jr.
140 Dixie Highway
Rossford, OH 43460-1215

Dear Charles V. Baumgartner:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Toledo Div of Environmental Services within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

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

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

Very truly yours,

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

cc: USEPA (electronic)
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Toledo Div of Environmental Services
Indiana
Michigan



Ohio EPA

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 12/30/99

Effective Date:

Expiration Date:

The duration of this permit will be five years.

This document constitutes issuance to:

Libbey-Owens-Ford Co.
140 Dixie Highway
Rossford, OH 43460-1215

of a Title V permit for Facility ID: 04-87-01-0012

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

P001 (6F1 Float Glass Melting Furnace)

Float Glass Melting Furnace, tin bath & annealing Lehr

P003 (6F3 Float Glass Melting Furnace)

Float Glass Melting Furnace, tin bath & annealing Lehr

P008 (Feed Materials Receiving and Transfer)

6F3 Wareroom Crusher & Cullet Incline (BH #1), 6F3 Wareroom Cullet Tunnel (BH #2), 6F3 Wareroom Crusher Alligators (BH #3), 6F1 Wareroom Alligator (BH #4), 6F1 Capping & Cullet Incline (BH #5), 6F3 Batch & Cullet Transfer (BH #6), 6F1 & 6F3 Batch Silos (BH #9), 6F1 Cullet Conveyor & Universal Feeder (BH #11), 6F3 N & S Side Universal & Cullet Feeder (Cyclones #1 & #2), 6F1 Cullet Feeder (Cyclone #3)

P009 (Material Batch Weighing and Mixing)

6F3 Batch Can. Cullet & Mixer (BH #7), 6F1 & 6F3 Mixhouse & Batch Elevator (BH #8), 6F1 Batch Mixer (BH #10A)

Z020 (RAFFO Glass Bending Furnace #23 Printing Operation)

RAFFO Bending Furnace #23 Printing Operation

Z038 (RAFFO Bending Furnace # 20 Off-line Printing Room A)

RAFFO Bending Furnace #20 Off-line Printing Room A

Z039 (RAFFO Bending Furnace #24 Printing Room A)

RAFFO Bending Furnace #24 Print Room A

Z052 (RAFFO Glass Bending Furnace #24 Printing Room B)

RAFFO Bending Furnace #24 Print Room B

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43602-1633
(419) 936-3015

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.6 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If 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 CFR 68.215(a), the permittee shall submit either of the following:

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

4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

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

8. Marketable Permit Programs

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

9. Reasonably Anticipated Operating Scenarios

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

10. Reopening for Cause

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

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

- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

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

12. Compliance Requirements

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

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

13. Permit Shield

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

14. Operational Flexibility

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

15. Emergencies

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

16. Off Permit Changes

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

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such

change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

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

17. Compliance Method Requirements

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.

18. Title VI Provisions

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

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

B. State Only Enforceable Section

1. Permit to Install Requirement

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. 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).

4. 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.

5. 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.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

B019 - warehouse space heater ARU-16
B021 - RAFFO Cleaver-Brooks package boiler
B022 - RAFFO Cleaver-Brooks package boiler
B023 - RAFFO Cleaver-Brooks package boiler
Z040 - RAFFO Cleaver-Brooks package boiler
Z050 - 8 mmBtu/hr Cleaver-Brooks package boiler
F001 - roadways and parking areas
F002 - cullet storage piles
T001 - 100,000 gallon fuel oil storage tank
T006 - 3,000,000 gallon fuel oil storage tank
T007 - 150,000 gallon fuel oil storage tank
Z001 - Hotwell diesel storage tank
Z002 - bath bottom diesel storage tank
Z009 - Hotwell diesel pump #1
Z010 - Hotwell diesel pump #2
Z011 - bath bottom diesel cooling fan #1
Z012 - bath bottom diesel cooling fan #2
Z013 - 6F1 wareroom ink marking system
Z015 - RAFFO glass bending furnace #11
Z016 - RAFFO glass bending furnace #23
Z021 - RAFFO silk screen cleaning booth
Z027 - cooling tower #1 and #2
Z037 - 6F3 wareroom ink marking system
Z041 - RAFFO glass bending furnace #11
Z044 - 6F1 wareroom glass cutting system
Z045 - instrument air backup air compressor
Z046 - 6F1 #2 crusher w/dust collector
Z047 - off-line cutting system w/dust collector
Z049 - RAFFO trim/hardware application booth
Z051 - 6F3 wareroom glass cutting system

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F1 Float Glass Melting Furnace (P001)
Activity Description: Float Glass Melting Furnace, tin bath & annealing Lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired float glass melting furnace (6F1) with a fill rate capacity of 690 tons per day, tin bath, and annealing Lehr with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	38.9 lbs/hr of particulates
	OAC rule 3745-18-06(E)(2)	55.7 lbs/hr of sulfur dioxide (SO ₂)
	PSD limitation established in PTI 04-1076 as issued March 25, 1998	112.3 tpy of sulfuric acid mist, based upon a rolling, 12-month summation of the monthly emissions
	netting limitation established in PTI 04-1076 as issued March 25, 1998	See A.II.1. below. 149.6 tpy of particulates, based upon a rolling, 12-month summation of the monthly emissions
	netting limitation established in PTI 04-1076 as issued March 25, 1998	364.7 tpy of nitrogen oxides (NO _x), based upon a rolling, 12-month summation of the monthly emissions
netting limitation established in PTI 04-1076 as issued March 25, 1998	243.8 tpy of SO ₂ , based upon a rolling, 12-month summation of the monthly emissions	

2. Additional Terms and Conditions

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

II. Operational Restrictions

1. The maximum salt cake and/or gypsum employed for this emissions unit shall not exceed the equivalent of 13 pounds of salt cake per thousand pounds of sand employed.

II. Operational Restrictions (continued)

2. Except as necessary to achieve maximum production during a compliance test, the permittee shall not operate source P001 greater than the maximum production rate of 601 tons of glass per day unless the permittee first demonstrates compliance with the limits specified in section A.I.1 of these terms and conditions at the desired, higher operating rate.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following:
 - a. the tons of glass draw, and the pounds of salt cake, pounds of gypsum, and pounds of sand employed;
 - b. the total number of hours this emissions unit was in operation;
 - c. the hourly average equivalent salt cake to sand ratio, in equivalent pounds of salt cake per 1000 pounds of sand employed (see A.VI.1);
 - d. the hourly average emissions of particulates and SO₂, in lbs/hr*; and
 - e. the rolling, 12-month summations of sulfuric acid mist, NO_x, SO₂, and particulates, in tons**.

* The hourly average particulate and SO₂ emissions shall be calculated by multiplying the hourly average glass draw rate (a)/(b), in tons per hour, times the particulate and SO₂ emission factors, in pound(s) per ton of glass produced, determined during the most recent stack tests which demonstrated compliance.

**The monthly emissions for sulfuric acid mist, NO_x, SO₂, and particulates shall be calculated by multiplying the glass draw rate, in tons per month, times the sulfuric acid mist, NO_x, SO₂, and particulates emission factors, in pound(s) per ton of glass produced as determined during the most recent stack test that demonstrated compliance. Individually sum the previous 11 months and the current month's sulfuric acid mist, NO_x, SO₂, and particulates emissions to obtain the rolling, 12-month summation, in pounds, and divide by 2000 pounds/ton.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each month during which the average hourly emissions of particulates exceeded 38.9 lbs/hr, and the actual average hourly emissions of particulates for each such month; and
 - b. an identification of each month during which the average hourly sulfur dioxide emissions exceeded 55.7 lbs/hr, and the actual average hourly sulfur dioxide emissions for each such month.
3. The permittee shall submit deviation (excursion) reports which identify all exceedences of the rolling, 12-month emission limitations for sulfuric acid mist, SO₂, NO_x, and particulates.

IV. Reporting Requirements (continued)

4. The permittee shall submit deviation (excursion) reports which identify all exceedences of the limitation of 13 pounds of salt cake and/or gypsum usage per thousand pounds of sand employed.
5. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c in this permit.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - 1.b Emission Limitation:

38.9 lbs/hr of particulates

Applicable Compliance Method:

Multiply the particulate emission factor in pounds of particulates per ton of glass draw as determined during the most recent stack test (1.62 lbs of particulates per ton of glass draw based on the stack test performed on 11/16/98), times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the record keeping requirements of section A.III.1. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(10).
 - 1.c Emission Limitation:

55.7 lbs/hr of SO₂

Applicable Compliance Method:

Multiply the most current SO₂ emission factor in pounds of SO₂ per ton of glass draw as determined during the most recent stack test, (0.86 lb of SO₂ per ton of glass draw based on stack test performed on 11/16/98) times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the record keeping requirements of section A.III.1. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(A).
 - 1.d Emission Limitation:

112.3 tpy of sulfuric acid mist

Applicable Compliance Method:

Multiply the sulfuric acid mist emission factor (0.82 lb of H₂SO₄ per ton of glass draw based on the stack test performed 11/16/98) as determined during the most recent stack test, in pound(s) of sulfuric acid mist emissions per ton of glass draw, times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section A.III.1.

V. Testing Requirements (continued)

1.e Emission Limitation:

149.6 tpy of particulates

Applicable Compliance Method:

Multiply the particulate emission factor in pound(s) of particulates per ton of glass draw, as determined during the most recent stack test, (1.62 pounds of particulates per ton of glass draw based on the stack test performed on 11/16/98) times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section A.III.1.

1.f Emission Limitation:

364.7 tpy of NOx

Applicable Compliance Method:

Multiply the NOx emission factor in pound(s) of NOx emissions per ton of glass draw as determined during the most recent stack test, (2.87 pounds of NOx per ton of glass draw based on the stack test performed on 11/16/98) times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section A.III.1.

1.g Emission Limitation:

243.8 tpy of SO2

Applicable Compliance Method:

Multiply the SO2 emission factor in pound(s) of SO2 emissions per ton of glass draw as determined during the most recent stack test, (0.86 pounds of SO2 per ton of glass draw based on the stack test performed on 11/16/98) times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section A.III.1.

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

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

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates, SO2, NOx, and sulfuric acid mist.

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

Particulates	Method 5 of 40 CFR Part 60, Appendix A
SO2	Method 6 of 40 CFR Part 60, Appendix A
NOx	Method 7 of 40 CFR Part 60, Appendix A
H2SO4	Method 8 of 40 CFR Part 60, Appendix A

The permittee may request to use an alternative method or procedure. The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Toledo Pollution Control Division.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the Toledo Pollution Control Division 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 performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Pollution Control Division within 30 days following completion of the test(s).

VI. Miscellaneous Requirements

1. Compliance with the operational restriction for the equivalent amount of salt cake and/or gypsum per thousand pounds of sand employed shall be determined by the following equation:

$$EF = (A + (B * 0.72)) / C$$

where:

EF = pounds of salt cake per thousand pounds of sand employed

A = the amount of salt cake employed, in pounds

B = the amount of gypsum employed, in pounds

C = the amount of sand employed, in thousand pounds

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired float glass melting furnace (6F1) with a fill rate capacity of 690 tons per day, tin bath, and annealing lehr with no controls	OAC rule 3745-31-05 (PTI 04-1076)	2.4 lbs/hr of carbon monoxide (CO) 10.4 tpy of CO, based upon a rolling, 12-month summation of the monthly emissions 83.3 lbs/hr of NOx 25.6 lbs/hr of sulfuric acid mist 2.4 lbs/hr of volatile organic compounds (VOC) 10.4 tpy of VOC, based upon a rolling, 12-month summation of the monthly emissions

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following:
 - a. the tons of glass draw, and the pounds of salt cake, pounds of gypsum, and pounds of sand employed;
 - b. the total number of hours this emissions unit was in operation;
 - c. the hourly average salt cake and gypsum to sand ratio, in equivalent pounds of salt cake per 1000 pounds of sand employed (see A.VI.1);
 - d. the rolling, 12-month summation of glass draw produced;
 - e. the hourly average emissions of CO, NO_x, VOC, and sulfuric acid mist, in lbs/hr*; and
 - f. the rolling, 12-month summations of CO and VOC, in tons**.

* The hourly average CO, NO_x, VOC and sulfuric acid mist emissions shall be calculated by multiplying the hourly average glass draw rate (a)/(b), in tons per hour, times the CO, NO_x, VOC and sulfuric acid mist emission factors, in pound(s) per ton of glass produced, determined during the most recent stack tests which demonstrated compliance.

**The rolling, 12-month summation for CO and VOC shall be calculated by multiplying the monthly glass draw rate, in tons per month, times the CO and VOC AP-42 emission factors, in pound(s) per ton of glass produced as determined during the most recent stack test that demonstrated compliance. Individually sum the previous 11 months and the current month's CO and VOC emissions to obtain the rolling, 12-month summation, in pounds, and divide by 2000 pounds/ton.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each month during which the average hourly CO emissions exceeded 2.4 lbs/hr, and the actual average hourly CO emissions for each such month;
 - b. an identification of each month during which the average hourly NO_x emissions exceeded 83.3 lbs/hr, and the actual average hourly NO_x emissions for each such month;
 - c. an identification of each month during which the average hourly sulfuric acid mist emissions exceeded 25.6 lbs/hr, and the actual average hourly sulfuric acid mist emissions for each such month; and
 - d. an identification of each month during which the average hourly VOC emissions exceeded 55.7 lbs/hr, and the actual average hourly VOC emissions for each such month.
2. The permittee shall submit deviation (excursion) reports which identify all exceedences of the rolling, 12-month emission limitations for CO and VOC.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

2.4 lbs/hr of CO

Applicable Compliance Method:

Multiply the CO emission factor of 0.1 pound of CO per ton of glass draw (obtained from AP-42, 10/86 Edition, Table 11.15-2) times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined based on the monitoring and record keeping requirements of section B.III.1. If required, the permittee shall also demonstrate compliance using Method 10 of 40 CFR Part 60, Appendix A.

1.b Emission Limitation:

10.4 tpy of CO

Applicable Compliance Method:

Multiply the CO emission factor of 0.1 pound of CO per ton of glass draw (obtained from AP42, 10/86 Edition, Table 11.15-2) times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section B.III.1.

1.c Emission Limitation:

83.3 lbs/hr of NO_x

Applicable Compliance Method:

Multiply the NO_x emission factor in pounds of NO_x per ton of glass draw as determined during the most recent stack test (2.87 lbs of NO_x per ton of glass draw based on stack test performed on 11/16/98) times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the record keeping requirements of section B.III.1. If required, the permittee shall demonstrate compliance using Method 7 of 40 CFR Part 60, Appendix A.

1.d Emission Limitation:

25.6 lbs/hr of sulfuric acid mist

Applicable Compliance Method:

Multiply the sulfuric acid mist emission factor in pounds of sulfuric acid mist per ton of glass draw, as determined during the most recent stack test, (0.82 lbs of sulfuric acid mist per ton of glass draw based on stack test performed on 11/16/98) times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the record keeping requirements of section B.III.1. If required, the permittee shall demonstrate compliance using Method 8 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

2.4 lbs/hr of VOC

Applicable Compliance Method:

Multiply the VOC emission factor of 0.1 pound of VOC per ton of glass draw (obtained from AP-42, 10/86 Edition, Table 11.15-2) times the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined based on the monitoring and record keeping requirements of section B.III.1. If required, the permittee shall also demonstrate compliance using Method 25 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.f Emission Limitation:

10.4 tpy of VOC

Applicable Compliance Method:

Multiply the VOC emission factor of 0.1 pound of VOC per ton of glass draw (obtained from AP42, 10/86 Edition, Table 11.15-2) times the rolling, 12-month summation of the glass draw, in tons, and then divide by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined based on the monitoring and record keeping requirements of section B.III.1.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F3 Float Glass Melting Furnace (P003)
Activity Description: Float Glass Melting Furnace, tin bath & annealing lehr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired float glass melting furnace (6F3) with a fill rate capacity of 800 tons per day, tin bath & annealing lehr with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	40.9 lbs/hr of particulates
	OAC rule 3745-18-06(E)(2)	314 lbs/hr of sulfur dioxide (SO ₂)

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the tons of glass draw;
 - b. the total number of hours this emissions unit was in operation; and
 - c. the hourly average glass draw rate on a weight basis (in tons per hour).
2. The permittee shall maintain daily records of the following information:
 - a. the hourly average emissions of particulates, in lbs/hr*; and
 - b. the hourly average emissions of SO₂, in lbs/hr*.

* The hourly average particulate and SO₂ emissions shall be calculated by multiplying the hourly average glass draw rate (A.III.1.c), in tons per hour, times the particulate and sulfur dioxide emission factors, in pound(s) per ton of glass produced, as determined during the most recent stack tests which demonstrated compliance.

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

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 stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly emissions of particulates exceeded 40.9 lbs/hr, and the actual average hourly emissions of particulates for each such day; and
 - b. an identification of each day during which the average hourly SO₂ emissions exceeded 314 lbs/hr, and the actual average hourly SO₂ emissions for each such day.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - 1.b Emission Limitation:

40.9 lbs/hr of particulates

Applicable Compliance Method:

The permittee shall demonstrate compliance based upon the record keeping requirements in sections A.III.1 and A.III.2 and the methods and procedures of OAC rule 3745-17-03(B)(10) and 40 CFR Part 60, Appendix A, Method 5.

V. Testing Requirements (continued)

1.c Emission Limitation:

314 lbs/hr of SO₂

Applicable Compliance Method:

The permittee shall demonstrate compliance based upon the record keeping requirements in sections A.III.1 and A.III.2 and the methods and procedures of OAC rule 3745-18-04(A) and 40 CFR Part 60, Appendix A, Method 6.

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

a. An emissions test shall be conducted 3 months after issuance to determine an emission factor for SO₂, in pounds of SO₂ per ton of glass produced.

b. The emissions testing shall also be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal to demonstrate compliance with the allowable mass emission rate(s) for particulates and SO₂.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A, for particulates and SO₂ emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Feed Materials Receiving and Transfer (P008)

Activity Description: 6F3 Wareroom Crusher & Cullet Incline (BH #1), 6F3 Wareroom Cullet Tunnel (BH #2), 6F3 Wareroom Crusher Alligators (BH #3), 6F1 Wareroom Alligator (BH #4), 6F1 Capping & Cullet Incline (BH #5), 6F3 Batch & Cullet Transfer (BH #6), 6F1 & 6F3 Batch Silos (BH #9), 6F1 Cullet Conveyor & Universal Feeder (BH #11), 6F3 N & S Side Universal & Cullet Feeder (Cyclones #1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
feed materials receiving and transfer to storage (includes the following baghouses and cyclones)	OAC rule 3745-17-08	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
6F3 wareroom crusher & cullet incline with baghouse #1	OAC rule 3745-17-11	12.6 lbs/hr of particulate emissions See A.I.2.c below.
6F3 wareroom cullet tunnel with baghouse #2		
6F3 wareroom crusher alligators with baghouse #3		
6F1 warehouse alligator with baghouse #4		
6F1 capping & cullet incline with baghouse #5		
6F3 batch & cullet transfer with baghouse #6		
6F1 and 6F3 batch silos with baghouse #9		
6F1 cullet conveyor & universal feeder with baghouse #11		
6F3 north side universal & cullet feeder with cyclone #1		
6F3 south side universal & cullet feeder with cyclone #2		
6F1 cullet feeder with cyclone #3 - unit retired 1999		

2. Additional Terms and Conditions

- This facility is not located in an Appendix A area as described in OAC rule 3745-17-08. Therefore, the visible particulate emission limitation and reasonably available control measures required in OAC rule 3745-17-07(B) and OAC rule 3745-17-08, respectively, do not apply to the fugitive emissions of this equipment.

2. Additional Terms and Conditions (continued)

- 2.b** Visible particulate emissions from the stack of each baghouse or cyclone shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- 2.c** This emission rate is the total particulate emissions allowed for all the baghouses, cyclones and uncontrolled stacks associated with this emissions unit.

II. Operational Restrictions

- 1. To ensure that each baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across each baghouse shall be maintained within the range of 1 to 7 inches of water while each emissions unit is in operation.
- 2. The permittee shall operate the cyclones whenever the 6F3 universal and cullet feeders are in operation.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly install, operate and maintain a monitoring device capable of accurately measuring 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 manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.
- 2. The permittee shall maintain daily records that document any time periods when any cyclone was not in service when the associated emissions unit was in operation.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified in section A.III.1.
- 2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.
- 3. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that a cyclone was not in service when the associated emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Toledo Division of Environmental Services within 30 days after the event occurs.

V. Testing Requirements

- 1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a** Emission Limitation:

12.6 lbs/hr of particulate emissions

Applicable Compliance Methods:

Compliance with the particulate emission limitation in this permit shall be demonstrated by emission testing in accordance with OAC rule 3745-17-03(B)(10).
 - 1.b** Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures required in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for all the baghouses, cyclones and uncontrolled stacks in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months of permit issuance and approximately 2.5 years after the initial stack test.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Material Batch Weighing and Mixing (P009)

Activity Description: 6F3 Batch Can. Cullet & Mixer (BH #7), 6F1 & 6F3 Mixhouse & Batch Elevator (BH #8), 6F1 Batch Mixer (BH #10A)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
material batch weighing and mixing (includes the following baghouses)	OAC rule 3745-17-08	See A.I.2.a below.
	OAC rule 3745-17-07(A)	See A.I.2.b below.
6F3 batch can, cullet and mixer with baghouse #7	OAC rule 3745-17-11	See A.I.2.c and A.I.2.d below.
6F3 & 6F1 mixhouse and batch elevator with baghouse #8		
6F1 batch mixer with baghouse #10		

2. Additional Terms and Conditions

- 2.a This facility is not located in an Appendix A area as described in OAC rule 3745-17-08. Therefore, the visible particulate emission limitation and reasonably available control measures required in OAC rule 3745-17-07(B) and OAC rule 3745-17-08, respectively, do not apply to the fugitive emissions of this equipment.
- 2.b Visible particulate emissions from the stack of each baghouse shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- 2.c Particulate emissions from this emissions unit shall be less than 10 lbs/hr*.

*The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable particulate emission limitation is greater than 10 lbs/hr. Therefore, to ensure that Figure II will not be applicable, a particulate emission limitation of less than 10 lbs/hr shall be applicable.

- 2.d This emission rate is the total particulate emissions allowed for all the baghouses associated with this emissions unit.

II. Operational Restrictions

1. To ensure that each baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across each baghouse shall be maintained within the range of 1 to 7 inches of water while each emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain a monitoring device capable of accurately measuring 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 manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified in section A.III.1.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:

<10.0 lbs/hr of particulate emissions

Applicable Compliance Methods:

Compliance with the particulate emission limitation in this permit shall be demonstrated by emission testing in accordance with OAC rule 3745-17-03(B)(10).
 - 1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures required in OAC rule 3745-17-03(B)(1).
2. The permittee shall conduct, or have conducted, emission testing for all the baghouses in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months of permit issuance and approximately 2.5 years after the initial stack test.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Glass Bending Furnace #23 Printing Operation (Z020)
Activity Description: RAFFO Bending Furnace #23 Printing Operation

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
RAFFO bending furnace #23 printing operation - coating operation for nonmetal parts	OAC rule 3745-21-07(G)(2)	8 lbs/hr of organic compounds (OC) 40 lbs/day of OC See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a This emission unit becomes subject to OAC rule 3745-21-07(G)(2) on any day when any photochemically reactive material is employed (coating or cleanup).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds of OC per gallon;
 - d. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total emission rate for all coatings and photochemically reactive cleanup materials, in pounds of OC per day;
 - e. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total number of hours the emissions unit was in operation; and
 - f. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average).

[NOTE: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of photochemically reactive material is based upon OAC rule 3745-21-01(C)(5).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the average hourly OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly OC emissions for each such day;
 - b. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual OC emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

8 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

V. Testing Requirements (continued)

1.b Emission Limitation:

40 lbs/day of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

- 2.** Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings and cleanup materials employed in the emissions unit.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Bending Furnace # 20 Off-line Printing Room A (Z038)

Activity Description: RAFFO Bending Furnace #20 Off-line Printing Room A

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
RAFFO bending furnace #20 off-line Print Room A - coating operation for nonmetal parts	OAC rule 3745-21-07(G)(2)	8 lbs/hr of organic compounds (OC) 40 lbs/day of OC See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a This emission unit becomes subject to OAC rule 3745-21-07(G)(2) on any day when any photochemically reactive material is employed (coating or cleanup).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds of OC per gallon;
 - d. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total emission rate for all coatings and photochemically reactive cleanup materials, in pounds of OC per day;
 - e. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total number of hours the emissions unit was in operation; and
 - f. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average).

[NOTE: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of photochemically reactive material is based upon OAC rule 3745-21-01(C)(5).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the average hourly OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly OC emissions for each such day;
 - b. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual OC emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

8 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

V. Testing Requirements (continued)

1.b Emission Limitation:

40 lbs/day of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings and cleanup materials employed in the emissions unit.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Bending Furnace #24 Printing Room A (Z039)

Activity Description: RAFFO Bending Furnace #24 Print Room A

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
RAFFO bending furnace #24 Print Room A - coating operation for nonmetal parts	OAC rule 3745-21-07(G)(2)	8 lbs/hr of organic compounds (OC) 40 lbs/day of OC See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a This emission unit becomes subject to OAC rule 3745-21-07(G)(2) on any day when any photochemically reactive material is employed (coating or cleanup).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds of OC per gallon;
 - d. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total emission rate for all coatings and photochemically reactive cleanup materials, in pounds of OC per day;
 - e. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total number of hours the emissions unit was in operation; and
 - f. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average).

[NOTE: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of photochemically reactive material is based upon OAC rule 3745-21-01(C)(5).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the average hourly OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly OC emissions for each such day; and
 - b. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual OC emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

8 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

V. Testing Requirements (continued)

1.b Emission Limitation:

40 lbs/day of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

- 2.** Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings and cleanup materials employed in the emissions unit.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Glass Bending Furnace #24 Printing Room B (Z052)
Activity Description: RAFFO Bending Furnace #24 Print Room B

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
RAFFO bending furnace #24 Print Room B - coating operation for nonmetal parts	OAC rule 3745-21-07(G)(2)	8 lbs/hr of organic compounds (OC) 40 lbs/day of OC See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a This emission unit becomes subject to OAC rule 3745-21-07(G)(2) on any day when any photochemically reactive material is employed (coating or cleanup).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds of OC per gallon;
 - d. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total emission rate for all coatings and photochemically reactive cleanup materials, in pounds of OC per day;
 - e. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the total number of hours the emissions unit was in operation; and
 - f. for each day during which a photochemically reactive material (coating or cleanup material) is employed, the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in lbs/hr (average).

[NOTE: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of photochemically reactive material is based upon OAC rule 3745-21-01(C)(5).]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the average hourly OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly OC emissions for each such day;
 - b. for the days during which a photochemically reactive material (coating or cleanup material) was employed, an identification of each day during which the OC emissions from all the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual OC emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

V. Testing Requirements

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

8 lbs/hr of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

V. Testing Requirements (continued)

1.b Emission Limitation:

40 lbs/day of OC

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section A.III.1.

- 2.** Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings and cleanup materials employed in the emissions unit.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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