State of Ohio Environmental Protection Agency

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

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

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

05/30/03

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

04-87-01-0012
Pilkington North America Inc
Charles V. Baumgartner Jr.
140 Dixie Highway
Rossford, OH 43460-1215

Dear Charles V. Baumgartner:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact Toledo Div of Environmental Services.

Very truly yours,

Michael W. Ahern

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

cc: Toledo Div of Environmental Services
File, DAPC PMU

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **05/30/03**	Effective Date: **06/20/03**	Expiration Date: **06/20/08**

This document constitutes issuance of a Title V permit for Facility ID: 04-87-01-0012 to:
Pilkington North America Inc
140 Dixie Highway
Rossford, OH 43460-1215

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

F003 (6F1 Hot End Cullet Handling System)
6F1 Hot End Cullet Handling System. Previously grouped under P008.

F004 (6F1 Cold End Cullet Handling System)
6F1 Cold End Cullet Handling System. Previously grouped under P008.

F005 (6F3 Hot End Cullet Handling System)
6F3 Hot End Cullet Handling System. Previously grouped under P008.

F006 (6F3 Cold End Cullet Handling System)
6F3 Cold End Cullet Handling System. Previously grouped under P008.

F007 (6F3 Batch and Cullet Feed System)
Batch and Cullet Feed System. Previously grouped under P008.

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

P011 (Backup Air Compressor)
Diesel-fired Emergency Air Compressor

P012 (6-F1 Diesel-fired Generator)
6-F1 CAT Diesel-fired Generator for Fin Fan Coolers

P013 (6-F3 Diesel-fired Generator)
6-F3 CAT Diesel-fired Generator for Fin Fan Coolers

P014 (6-F3 Diesel-fired Generator for Hotwell Pumps)
6-F3 CAT Diesel-fired Generator for Hotwell Pumps

P015 (6-F1-A Diesel-fired Pump)
6-F1-A CAT Diesel-fired Cooling Pump

P016 (6-F1-B Diesel-fired Pump)
6-F1-B CAT Diesel-fired Cooling Pump

P017 (6-F1-C Diesel-fired Pump)
6-F1-C CAT Diesel-fired Cooling Pump

P018 (6-F3-A Diesel-fired Pump)
6-F3-A CAT Diesel-fired Cooling Pump

P019 (6-F3-B Diesel-fired Pump)
6-F3-B CAT Diesel-fired Cooling Pump

P020 (6-F3-C Diesel-fired Pump)
6-F3-C CAT Diesel-fired Cooling Pump

R001 (RAFFO Glass Bending Furnace #23 Printing Operation)
RAFFO Bending Furnace #23 Printing Operation (no dryer)

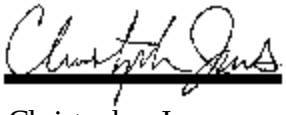
R002 (RAFFO Glass Bending Furnace #24 Printing Room B)
RAFFO Bending Furnace #24 Printing Room B (no dryer)

R003 (RAFFO Bending Furnace #24 Printing Room A)
RAFFO Bending Furnace #24 Printing Room A with UV Dryer

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

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 Record Keeping and Reporting Requirements

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

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

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

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

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

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

(a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six

months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) ,(ii) and (iii))

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

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

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

iii. **For monitoring, record keeping, and reporting requirements:**
Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no deviations occurred during that period.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the

report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

3. Risk Management Plans

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

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

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

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

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

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

6. General Requirements

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

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

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

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

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

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

7. Fees

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

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

8. Marketable Permit Programs

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

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

9. Reasonably Anticipated Operating Scenarios

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

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

10. Reopening for Cause

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

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement.

No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

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

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

11. Federal and State Enforceability

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

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

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
ii. Compliance certifications shall include the following:
(a) An identification of each term or condition of this permit that is the basis of the certification.
(b) The permittee's current compliance status.
(c) Whether compliance was continuous or intermittent.
(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

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

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification

under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).
(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

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

16. Off-Permit Changes

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

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

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

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

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

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

(I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

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

17. Compliance Method Requirements

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

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.
(Authority for term: OAC rule 3745-77-07(A)(1))

B. *State Only Enforceable Section*

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

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

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

2. Records Retention Requirements

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

3. Inspections and Information Requests

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

4. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with

paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

5. Permit Transfers

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

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

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

B019 - warehouse space heater ARU-16, 5.6/2.8 mmBtu/hr;
B021 - RAFFO Cleaver-Brooks package boiler;
B022 - RAFFO Cleaver-Brooks package boiler;
B023 - RAFFO Cleaver-Brooks package boiler;
F001 - roadways and parking areas;
F002 - cullet storage piles;
G001 - gasoline/diesel fuel dispensing facility;
T001 - 100,000-gallon fuel oil storage tank;
T007 - 150,000-gallon fuel oil storage tank;
Z001 - Hotwell diesel storage tank;
Z002 - bath bottom diesel storage tank;
Z011 - bath bottom diesel cooling fan #1;
Z012 - bath bottom diesel cooling fan #2;
Z015 - RAFFO glass bending furnace #11;
Z016 - RAFFO glass bending furnace #23;
Z021 - RAFFO silk screen cleaning booth;
Z037 - 6F3 wareroom ink marking system;
Z040 - RAFFO Cleaver-Brooks package boiler;
Z044 - 6F1 wareroom glass cutting system;
Z045 - instrument air backup air compressor;
Z046 - 6F1 #2 crusher with dust collector;
Z047 - off-line cutting system with dust collector;
Z049 - RAFFO trim/hardware application booth;
Z050 - 8 mmBtu/hr Cleaver-Brooks package boiler;
Z051 - 6F3 wareroom glass cutting system;
Z060 - F1A mixer B;
Z061 - F1B mixer A;
Z062 - F3A mixer D;
Z063 - F3B mixer C;
Z064 - BP-MM-1;
Z065 - BP-MM-2;
Z066 - BP-MM-4;
Z067 - 6f1 unit A bin vents;
Z068 - 6f1 unit B bin vents;
Z069 - 6F3 unit C bin vents;
Z070 - 6F3 unit D bin vents;
Z071 - BP-RS-1 rail unloading; and
Z072 - BP-RT-1 storage silo.

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.

B. State Only Enforceable Section

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F1 Hot End Cullet Handling System (F003)

Activity Description: 6F1 Hot End Cullet Handling System. Previously grouped under P008.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F1 hot end cullet handling system controlled with baghouse #7	OAC rule 3745-17-07(A)(1)	See section A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See section A.I.2.b.
	OAC rule 3745-17-08(B)	See section A.I.2.b.
	OAC rule 3745-17-11(B)(1)	9.09 lbs/hr of particulate 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.

2.b 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(B), respectively, do not apply to the fugitive emissions of this equipment.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while this 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 the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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:

9.09 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.03 pound of particulate emissions per ton of glass draw based on the stack test conducted 6/15/01 for BH#6), in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR 60, Appendix A, Methods 1 through 5 and the methods and procedures of OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F1 Cold End Cullet Handling System (F004)

Activity Description: 6F1 Cold End Cullet Handling System. Previously grouped under P008.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F1 cold end cullet handling system controlled with baghouses #4 and #5	OAC rule 3745-17-07(A)(1)	See section A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See section A.I.2.b.
	OAC rule 3745-17-08(B)	See section A.I.2.b.
	OAC rule 3745-17-11(B)(1)	23.43 lbs/hr of particulate emissions See section A.I.2.c.

2. Additional Terms and Conditions

2.a 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.b 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(B), respectively, do not apply to the fugitive emissions of this equipment.

2.c This emission limitation represents the total allowable particulate emissions for baghouse #4 and baghouse #5, combined.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while this 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 quarterly 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 above.

IV. Reporting Requirements (continued)

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:

23.43 lbs/hr of particulate emissions (combined limit)

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.13 pound PE per ton of glass draw based on the stack test conducted on 4/22/01 for BH#3), in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III for each baghouse. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR 60, Appendix A, Methods 1 through 5 and the methods and procedures of OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F3 Hot End Cullet Handling System (F005)

Activity Description: 6F3 Hot End Cullet Handling System. Previously grouped under P008.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F3 hot end cullet handling system with baghouse #6 for control	OAC rule 3745-17-07(B)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	See A.I.2.a below.
	OAC rule 3745-17-07(A)(1)	See A.I.2.b below.
	OAC rule 3745-17-11(B)(1)	10.50 lbs/hr of particulate emissions

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(B), 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.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while this 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 the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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:

10.50 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.03 pound PE per ton of glass draw based on the stack test conducted on 6/15/01 for BH#6), in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR 60, Appendix A, Methods 1 through 5 and the methods and procedures of OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F3 Cold End Cullet Handling System (F006)

Activity Description: 6F3 Cold End Cullet Handling System. Previously grouped under P008.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F3 cold end cullet handling system with baghouses #1 and #3 for control	OAC rule 3745-17-07(B)	See section A.I.2.a.
	OAC rule 3745-17-08(B)	See section A.I.2.a.
	OAC rule 3745-17-07(A)(1)	See section A.I.2.b.
	OAC rule 3745-17-11(B)(1)	27.1 lbs/hr of particulate emissions (See section A.I.2.c.)

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(B), 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 This emission rate is the total particulate emissions allowed for both baghouses combined.

II. Operational Restrictions

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while this 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 quarterly 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 above.

IV. Reporting Requirements (continued)

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:

27.1 lbs/hr of particulate emissions (combined limit)

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.13 pound PE per ton of glass draw based on the stack test conducted on 4/22/01 for BH#3), in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III for each baghouse. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR 60, Appendix A, Methods 1 through 5 and the methods and procedures of OAC rule 3745-17-03(B)(10).

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6F3 Batch and Cullet Feed System (F007)

Activity Description: Batch and Cullet Feed System. Previously grouped under P008.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F3 batch and cullet feed system controlled with cyclones #1 and #2	OAC rule 3745-17-07(A)(1)	See section A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See section A.I.2.b.
	OAC rule 3745-17-08(B)	See section A.I.2.b.
	OAC rule 3745-17-11(B)(1)	39.8 lbs/hr of particulate emissions See section A.I.2.c.

2. Additional Terms and Conditions

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

2.b 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(B), respectively, do not apply to the fugitive emissions of this equipment.

2.c This emission limitation represents the total allowable particulate emissions for cyclone #1 and cyclone #2, combined.

II. Operational Restrictions

1. The permittee shall operate the cyclones whenever the 6F3 batch and cullet feed system is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when either cyclone was not in service when the associated emissions unit was in operation.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall notify the Toledo Division of Environmental Services in writing of any daily record showing that either 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.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission 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:

39.8 lbs/hr of particulate emissions (combined limit)

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.01 pound PE per ton of glass draw based on the stack test conducted on 4/20/01 for Cyclone #1), in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III for each cyclone. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR 60, Appendix A, Methods 1 through 5 and the methods and procedures of OAC rule 3745-17-03(B)(10).

V. Testing Requirements (continued)

1.b Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F1 float glass melting furnace (571 tons glass draw per day) fueled by natural gas and/or #2 fuel oil with no control equipment	OAC rule 3745-31-05(A)(3) (PTI 04-01076 issued March 25, 1998, modified June 4, 2002)	83.27 lbs/hr of nitrogen oxides (NOx) 364.7 tpy of NOx, based upon a rolling, 12-month summation of the monthly emissions 149.6 tpy of particulate emissions, based upon a rolling, 12-month summation of the monthly emissions 243.84 tpy of sulfur dioxide (SO2), based upon a rolling, 12-month summation of the monthly emissions 3.88 lbs/hr of carbon monoxide (CO) 16.99 tpy of CO, based upon a rolling, 12-month summation of the monthly emissions 2.45 lbs/hr of volatile organic compounds (VOC) 10.75 tpy of VOC, based upon a rolling, 12-month summation of the monthly emissions 25.64 lbs/hr of sulfuric acid mist 112.34 tpy of sulfuric acid mist, based upon a rolling, 12-month summation of the monthly emissions The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-18-06(E)(2). See section A.II.1.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(1)	38.91 lbs/hr of particulate emissions
	OAC rule 3745-18-06(E)(2)	55.67 lbs/hr of SO2

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The production rate of glass draw shall not exceed 198,800 tons per year, based upon a rolling, 12-month summation of the monthly production rate. This production level was based upon the stack test conducted on February 4, 2003 and the emission factor of 0.85 lb of particulates per ton of glass draw. If future testing results in lower emission factors being developed and approved by Ohio EPA, the production restriction will be adjusted based upon the following formula:

PR = EL x (1/EF) x 2000 lbs/ton

where:

PR = the production rate (tons of glass draw per rolling, 12-month period);

EL = the emission limit, 364.73 tpy of Nox, 243.84 tpy of SO2, or 149.6 tpy of particulates (tons per rolling, 12-month period); and

EF = the emission factor determined from the most recent stack test for NOx, SO2, or particulates (lb of pollutant per ton of glass draw).

The new allowable production limit shall be the lowest production rate resulting from the above formula (whichever pollutant with the factor and emission limit that results in the lowest allowable production shall be used).

Compliance with the annual glass draw production rate limitation shall be based upon a rolling, 12-month summation of the monthly glass draw production rate.

2. The maximum annual salt cake and gypsum usage for this emissions unit shall not exceed the equivalent of 13 pounds of salt cake per thousand pounds of sand employed, based upon a rolling, 12-month summation of the salt cake and gypsum usage figures (see section A.V.2.b).

3. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

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

a. the tons of glass draw, and the pounds of salt cake, pounds of gypsum, and pounds of sand employed;

b. the rolling, 12-month summation of glass draw for each calendar month;

c. the rolling, 12-month summation of particulate emissions, SO2, NOx, CO, VOC, and sulfuric acid mist, in tons (calculated as described in section A.V); and

d. the hours of operation of this emissions unit.

2. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the tpy emission limitations for particulate emissions, SO2, NOx, CO, VOC, and sulfuric acid mist as a rolling, 12-month summation.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the equivalent of 13 pounds of salt cake per thousand pounds of sand employed.

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

4. The permittee shall also submit annual reports that specify the total particulate emissions (or equivalent particulate matter less than 10 microns), CO, SO2, VOC, NOx, and sulfuric acid mist emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.

5. 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

1.b Emission Limitation:

The maximum annual salt cake and gypsum usage for this emissions unit shall not exceed the equivalent of 13 pounds of salt cake per thousand pounds of sand employed, based upon a rolling, 12-month summation of the salt cake and gypsum usage figures.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the requirements specified in section A.III.1 and the following equation:

EF = [A + (0.72B)] / C

where:

EF = the pounds of salt cake per thousand pounds of sand employed;
A = the amount of salt cake (Na_2SO_4) employed, in pounds;
B = the amount of gypsum ($CaSO_4*2H_2O$) employed, in pounds; and
C = the amount of sand employed, in thousand pounds.

1.c Emission Limitation:

25.64 lbs/hr of sulfuric acid mist

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the sulfuric acid mist emission factor determined during the most recent stack test (0.01 lb of H_2SO_4 per ton of glass draw based on the stack test performed on February 4, 2003), in pound(s) of sulfuric acid mist emissions per ton of glass draw, by the average glass draw, in tons per hour. Compliance shall be demonstrated based upon emission testing performed in accordance with Methods 1 through 4 and Method 8 of 40 CFR Part 60, Appendix A as specified in section A.V.2.

1.d Emission Limitation:

112.34 tpy of sulfuric acid mist

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the sulfuric acid mist emission factor, determined during the most recent stack test that demonstrated compliance, in pounds of sulfuric acid mist per ton of glass draw, by the rolling, 12-month summation of the production of glass draw, in tons, found in section A.III.1, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.e Emission Limitation:

38.91 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance (0.85 lb of particulates per ton of glass draw based on the stack test performed on February 4, 2003), in pounds of particulate emissions per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements in section A.III.1. Compliance shall be demonstrated based upon emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A as specified in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

1.f Emission Limitation:

149.6 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the particulate emission factor, determined during the most recent stack test that demonstrated compliance, in pounds of particulate emissions per ton of glass draw, by the rolling, 12-month summation of the production of glass draw, in tons, found in section A.III.1, and then dividing by 2000 lbs/ton.

1.g Emission Limitation:

55.67 lbs/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the SO2 emission factor determined during the most recent stack test that demonstrated compliance (1.36 lbs of SO2 per ton of glass draw based on the stack test performed on February 4, 2003), in pounds of SO2 per ton of glass draw, by the production rate of glass (tons of glass draw per hour) established through the record keeping requirements of section A.III.1. Compliance shall be demonstrated based upon emission testing performed in accordance with Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A as specified in section A.V.2 and the methods and procedures of OAC rule 3745-18-04.

1.h Emission Limitation:

243.84 tpy of SO2

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the SO2 emission factor determined during the most recent stack test that demonstrated compliance, in pounds of SO2 per ton of glass draw, by the rolling, 12-month summation of the production of glass draw, in tons, established through the record keeping requirements in section A.III.1, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.i Emission Limitation:

3.88 lbs/hr of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor determined during the most recent stack test that demonstrated compliance (0.005 lb of CO per ton of glass draw based on the stack test performed on February 4, 2003), in pounds of CO per ton of glass draw, by the production rate of glass (tons of glass draw per hour), established through the record keeping requirements of section A.III.1. If required, the permittee shall perform emission testing in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

1.j Emission Limitation:

16.99 tpy of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor determined during the most recent stack test that demonstrated compliance, in pounds of CO per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing 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 specified in section A.III.1.

1.k Emission Limitation:

2.45 lbs/hr of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying 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), by the glass draw, in tons per hour. The glass draw, in tons per hour, shall be determined based on the monitoring and record keeping requirements specified in section A.III.1. If required, the permittee shall also demonstrate compliance using Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and OAC rule 3745-21-10(C).

1.l Emission Limitation:

10.75 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying 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), by the rolling, 12-month summation of the glass draw, in tons, and then dividing 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 specified in section A.III.1.

V. Testing Requirements (continued)

1.m Emission Limitation:

83.27 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the NOx emission factor in pounds of NOx per ton of glass draw as determined during the most recent stack test (3.67 lbs of NOx per ton of glass draw based on stack test performed on February 4, 2003), by the glass draw, in tons per hour. The glass draw, in tons per hour, shall be determined through the record keeping requirements specified in section A.III.1. Compliance shall be demonstrated based upon emission testing performed in accordance with Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A as specified in section A.V.2.

1.n Emission Limitation:

364.73 tpy of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the NOx emission factor in pounds of NOx emissions per ton of glass draw as determined during the most recent stack test, by the rolling, 12-month summation of the glass draw, in tons, and then dividing 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 specified in 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 within 9 months prior to the issuance of this permit or within 6 months after issuance of this permit, approximately 2.5 years after permit issuance, and within 6 months prior to permit expiration.

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

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

particulates - Methods 1 through 5 of 40 CFR Part 60, Appendix A;
SO2 - Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A;
NOx - Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A; and
sulfuric acid mist - Methods 1 through 4 and Method 8 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and using only "virgin" materials, unless otherwise specified or approved by the Toledo Division of Environmental Services.

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 Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services's refusal to accept the results of the emission test(s).

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

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F1 float glass melting furnace (571 tons glass draw per day) fueled by natural gas and/or #2 fuel oil with no control equipment		See section B.III.1.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emission unit (P001) was evaluated based on the actual materials and the design parameters of the emission unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA-approved Model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Selenium
TLV (mg/m3): 0.2
Maximum Hourly Emission Rate (lbs/hr): 3.05
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.7789
MAGLC (ug/m3): 4.76

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

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determined that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower threshold limit value (TLV), as indicated in the most recent version of the handbook entitled " American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emission of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F3 float glass melting furnace (714 tons glass draw per day) fueled by natural gas with 3R NOx control technology equipment	OAC rule 3745-31-05(A)(3) (PTI 04-01200 issued September 26, 2000)	220 lbs/hr of nitrogen oxides (NOx) 4.5 lbs/hr of carbon monoxide (CO) 20 tpy of CO 100 lbs/hr of sulfur dioxide (SO2) 4.5 lbs/hr of volatile organic compounds (VOC)/organic compounds (OC) 20 tpy of VOC/OC 1.5 lbs/hr of sulfuric acid mist 6.5 tpy of sulfuric acid mist See sections A.I.2.c and A.I.2.e.
	OAC rule 3745-17-07(C)	Visible particulate emissions from any stack shall not exceed 36.7% opacity as a 6-minute average. See section A.I.2.a.
	OAC rule 3745-17-11(B)(1)	41 lbs/hr of particulate emissions
	OAC rule 3745-18-06(E)(2)	See section A.I.2.b.
	OAC rule 3745-21-07(B)	See section A.I.2.e.
	OAC rule 3745-21-08(B)	See section A.I.2.d.
	OAC rule 3745-23-06(B)	See section A.I.2.e.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD	144 tpy of particulate emissions, based upon a rolling, 12-month summation of the monthly emissions 945 tpy of NOx, based upon a rolling, 12-month summation of the monthly emissions 272 tpy of SO2, based upon a rolling, 12-month summation of the monthly emissions See section A.I.2.f.

2. Additional Terms and Conditions

2.a Pursuant to the provisions of OAC rule 3745-17-07(C), this facility is hereby granted the following equivalent visible particulate emissions limitations for this emissions unit in lieu of the 20 and 60 percent opacity limitations specified in OAC rule 3745-17-07(A)(1)(a) and (A)(1)(b).

i. Except as otherwise specified in OAC rule 3745-17-07(A)(2) and (A)(3) and paragraph ii. below, this facility shall not cause or allow the discharge into the ambient air from any stack associated with this emissions unit any air contaminant of a shade or density greater than 36.7% opacity, as a 6-minute average.

ii. This facility may cause or allow the discharge into the ambient air from any stack associated with this emissions unit for not more than 6 consecutive minutes in any 60 minutes any air contaminant of a shade or density not greater than 36.7% opacity, as a 6-minute average.

For the purpose of determining compliance with the equivalent visible particulate emission limitation specified above, visible particulate emissions shall be determined according to the test methods and procedures prescribed in OAC rule 3745-17-03(B)(1).

2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.c The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(B)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B), and OAC rule 3745-31-05(D).

2.d The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01200.

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

2.e The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01200.

2. Additional Terms and Conditions (continued)

2.f The emission limits for particulates, SO2, and NOx were determined using the following emission factors: 1.2 lbs of particulates per ton of glass draw, 2.37 lbs of SO2 per ton of glass draw, and 7.5 lbs of NOx per ton of glass draw (based on the information submitted in the 2000 PTI application). The annual tons of glass draw operational restriction specified in section A.II.1 is based on the above emission factors. If stack testing shows higher emission factors, further restrictions on the annual tons of glass draw will be required (see section A.II.1.).

II. Operational Restrictions

1. The production rate of glass draw shall not exceed 229,535 tons per year, based upon a rolling, 12-month summation of the monthly production rate. This production level was based upon an emission factor of 2.37 lbs of SO2 per ton of glass draw. If future testing results in lower emission factors being developed and approved by Ohio EPA, the production restriction will adjust based upon the following formula:

PR = EL * (1/EF) * 2000 lbs/ton

where:

PR = the production rate (tons of glass draw per rolling, 12-month period);

EL = the emission limit, 945 tpy of NOx, 272 tpy of SO2, or 144 tpy of PM (tons per rolling, 12-month period); and

EF = the emission factor determined from the most current stack test for NOx, SO2 or particulates (lbs of pollutant per ton of glass draw).

The new allowable production limit shall be the lowest production rate resulting from the above formula (whichever pollutant with the factor and emission limit that results in the lowest allowable production shall be used).

Compliance with the annual glass draw production rate limitation shall be based upon a rolling, 12-month summation of the monthly glass draw production rate.

2. The salt cake usage rate, in pounds per ton of glass draw, shall not exceed the rate determined during the most recent stack test which demonstrated compliance with the emission limitation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall maintain monthly records of the following:

a. the tons of glass draw;

b. the number of hours this emissions unit was in operation;

c. the monthly average production rate of glass produced, in tons of glass draw per hour, (a/b);

d. the rolling, 12-month summation of PE emissions, in tons (calculated as described in section A.V);

e. the rolling, 12-month summation of SO2 emissions, in tons (calculated as described in section A.V); and

f. the rolling, 12-month summation of NOx emissions, in tons (calculated as described in section A.V).

3. The permittee shall maintain monthly records of the salt cake usage rate, in pounds per ton of glass draw.

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month emission limitations for particulates, SO2, NOx, and the glass draw production rate.

3. The permittee shall submit quarterly summations of the monthly records for glass draw and hours of operation. These reports shall be submitted along with the deviation reports required in section A.IV of these terms and conditions and cover the same time period.

4. The permittee shall submit quarterly summations of the monthly records for the salt cake and/or gypsum usage rate, in pounds per ton of glass draw. These reports shall be submitted along with the deviation reports required in section A.IV of these terms and conditions and cover the same time period.

IV. Reporting Requirements (continued)

5. 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:

36.7% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the requirements of 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures of OAC rule 3745-17-03(B)(1) as specified in section A.V.2.

1.b Emission Limitation:

4.5 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the CO emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of CO emissions per ton of glass draw, by the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements specified in section A.III.2. Compliance shall be demonstrated based upon the emission testing procedures specified in Method 10 of 40 CFR Part 60, Appendix A and section A.V.2.
(also see section A.VI.)

1.c Emission Limitation:

20 tpy of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of CO emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined by the monitoring and record keeping requirements specified in section A.III.2.
(also see section A.VI.)

1.d Emission Limitation:

220 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the NOx emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of NOx emissions per ton of glass draw, by the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements specified in section A.III.2. Compliance shall be demonstrated based upon the procedures specified in Method 7 of 40 CFR Part 60, Appendix A and section A.V.2.

V. Testing Requirements (continued)

1.e Emission Limitation:

945 tpy of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the NOx emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of NOx emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined through the monitoring and record keeping requirements specified in section A.III.2.

1.f Emission Limitation:

41 lbs/hr of paticulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance, in pounds of particulates per ton of glass draw, by the production rate of glass (tons of glass draw per hour). The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements specified in section A.III.2. Compliance shall be demonstrated based upon the methods and procedures specified in Method 5 of 40 CFR Part 60, Appendix A, OAC rule 3745-17-03(B)(10), and section A.V.2.

1.g Emission Limitation:

144 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the particulate emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of particulate emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined through the monitoring and record keeping requirements specified in section A.III.2.

1.h Emission Limitation:

100 lbs/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the SO2 emission factor determined during the most recent stack test that demonstrated compliance, in pounds of SO2 per ton of glass draw, by the production rate of glass (tons of glass draw per hour). The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements specified in section A.III.2. Compliance shall be demonstrated based upon the methods and procedures specified in Method 6 of 40 CFR Part 60, Appendix A, OAC rule 3745-18-04, and section A.V.2.

V. Testing Requirements (continued)

1.i Emission Limitation:

272 tpy of SO2

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the SO2 emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of SO2 emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined through the monitoring and record keeping requirements specified in section A.III.2.

1.j Emission Limitation:

4.5 lbs/hr of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of VOC emissions per ton of glass draw, by the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements of section A.III.2. If required, the permittee shall also demonstrate compliance using method 25 of 40 CFR Part 60, Appendix A.

1.k Emission Limitation:

20 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor determined during the most recent stack test that demonstrated compliance, in pound(s) of VOC emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined by the monitoring and record keeping requirements specified in section A.III.2.

1.l Emission Limitation:

1.5 lbs/hr of sulfuric acid mist

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the sulfuric acid mist emission factor determined during the most recent stack test, in pound(s) of sulfuric acid mist emissions per ton of glass draw, by the average glass draw, in tons per hour. The average glass draw, in tons per hour, shall be determined through the monitoring and record keeping requirements specified in section A.III.2. Compliance shall be demonstrated based upon the methods and procedures specified in Method 8 of 40 CFR Part 60, Appendix A and section A.V.2.
(also see section A.VI.)

V. Testing Requirements (continued)

1.m Emission Limitation:

6.5 tpy of sulfuric acid mist

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the sulfuric acid mist emission factor determined during the most recent stack test, in pound(s) of sulfuric acid mist emissions per ton of glass draw, by the rolling, 12-month summation of the glass draw, in tons, and then dividing by 2000 lbs/ton. The rolling, 12-month summation of the glass draw, in tons, shall be determined through the monitoring and record keeping requirements specified in section A.III.
(also see section A.VI.)

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 within 12 months prior to the issuance of this permit or within 6 months after issuance of this permit, approximately 2.5 years after permit issuance, and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the opacity limitation and the allowable mass emission rates for particulates, SO2, NOx, CO, and sulfuric acid mist.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and opacity:

particulates - Methods 1 through 5 of 40 CFR Part 60, Appendix A;
SO2 - Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A;
NOx - Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A;
sulfuric acid mist - Methods 1 through 4 and Method 8 of 40 CFR Part 60, Appendix A;
opacity - Method 9 of 40 CFR Part 60, Appendix A; and
CO - Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity and using only "virgin" materials, unless otherwise specified or approved by the Toledo Division of Environmental Services. Operation at less than 90% of the maximum capacity will result in a derating of the maximum capacity of the emissions unit, which may result in additional emission limitations and/or additional stack testing.

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 Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services's refusal to accept the results of the emission test(s).

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

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

VI. Miscellaneous Requirements

1. COMPLIANCE SCHEDULE FOR EMISSIONS UNIT P003
Two months after issuance of the TV permit, the permittee shall complete and submit a permit to install application formalizing the following permit modifications:

a. requesting an increase in the hourly and annual carbon monoxide limitations to reflect the results of testing performed on emissions unit P003 while utilizing the 3R NOx control technology;

b. requesting an increase in the sulfuric acid limitations to reflect the results of testing performed on emissions unit P003 while utilizing the 3R NOx control technology; and

c. requesting an air toxics review for selenium to reflect the results of testing performed on emissions unit P003 utilizing the 3R NOx control technology.

2. Four months after issuance of the Title V permit, the permittee shall implement and submit documentation formalizing the following procedural modifications:

a. monitoring and compliance certification procedures; and

b. testing to provide the optimization parameters.

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
6F3 float glass melting furnace (714 tons glass draw per day) fueled by natural gas with 3R NOx control technology equipment		See section B.III.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit (P003) was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Sulfuric Acid Mist

TLV (mg/m3): 1000

Maximum Hourly Emission Rate (lbs/hr): 1.5

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.37

MAGLC (ug/m3): 23.8

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

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

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Backup Air Compressor (P011)

Activity Description: Diesel-fired Emergency Air Compressor

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
890 hp backup air compressor, diesel fueled, with no control (formerly Z048)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	9.1 lbs/hr of nitrogen oxides (NOx) 8.7 tpy of NOx 2.8 lbs/hr of carbon monoxide (CO) 2.7 tpy of CO 0.9 lb/hr of particulate emissions 0.9 tpy of particulate emissions 0.9 lb/hr of sulfur dioxide (SO2) 0.8 tpy of SO2 1.0 lb/hr of volatile organic compounds (VOC) 1.0 tpy of VOC The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions unit P011 shall not exceed 40,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for this emissions unit; and

b. the rolling, 12-month summation of the fuel usage for this emissions unit.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

IV. Reporting Requirements (continued)

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

9.1 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (20.9 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

8.7 tpy of NOx

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.d Emission Limitation:

2.8 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (20.9 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.e Emission Limitation:

2.7 tpy of CO

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.9 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (20.9 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.9 tpy of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.h Emission Limitation:

0.9 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (20.9 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.i Emission Limitation:

0.8 tpy of SO2

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

1.0 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (20.9 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

1.0 tpy of VOC

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F1 Diesel-fired Generator (P012)

Activity Description: 6-F1 CAT Diesel-fired Generator for Fin Fan Coolers

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
420 hp 6-F1 CAT model 3406 diesel-fired generator with no control (formerly Z052)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	10.0 lbs/hr of nitrogen oxides (NOx) 3.1 lbs/hr of carbon monoxide (CO) 1.0 lb/hr of particulate emissions 0.9 lb/hr of sulfur dioxide (SO2) 1.1 lbs/hr of volatile organic compounds (VOC) The annual emissions from emissions units P012, P013, and P014, combined (Group 1) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P012, P013, and P014, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 1 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P012, P013, and P014, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 1 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P012, P013, and P014, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

10.0 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

3.1 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

1.0 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.9 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

1.1 lbs/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F3 Diesel-fired Generator (P013)

Activity Description: 6-F3 CAT Diesel-fired Generator for Fin Fan Coolers

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
890 hp 6-F3 CAT model 3406 diesel-fired generator for Fin Fan cooler with no control (formerly Z056)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	10.0 lbs/hr of nitrogen oxides (NOx) 3.1 lbs/hr of carbon monoxide (CO) 1.0 lb/hr of particulate emissions 0.9 lb/hr of sulfur dioxide (SO2) 1.1 lbs/hr of volatile organic compounds (VOC) The annual emissions from emissions units P012, P013, and P014, combined (Group 1) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P012, P013, and P014, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 1 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P012, P013, and P014, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 1 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P012, P013, and P014, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

10.0 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

3.1 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

1.0 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.9 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

1.1 lbs/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (22.9 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F3 Diesel-fired Generator for Hotwell Pumps (P014)

Activity Description: 6-F3 CAT Diesel-fired Generator for Hotwell Pumps

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
460 hp 6-F3 CAT model 3412 diesel-fired generator for Hotwell pumps with no control (formerly Z057)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	19.3 lbs/hr of nitrogen oxides (NOx) 5.9 lbs/hr of carbon monoxide (CO) 1.9 lbs/hr of particulate emissions 1.8 lbs/hr of sulfur dioxide (SO2) 2.2 lbs/hr of volatile organic compounds (VOC) The annual emissions from emissions units P012, P013, and P014, combined (Group 1) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P012, P013, and P014, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 1 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P012, P013, and P014, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 1 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P012, P013, and P014, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

19.3 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (44.2 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

5.9 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (44.2 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

1.9 lbs/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (44.2 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

1.8 lbs/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (44.2 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

2.2 lbs/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (44.2 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P012, P013, and P014, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F1-A Diesel-fired Pump (P015)

Activity Description: 6-F1-A CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
234 hp 6-F1-A CAT model 3306 diesel-fired cooling pump with no control (formerly Z049)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	5.1 lbs/hr of nitrogen oxides (NOx) 1.6 lbs/hr of carbon monoxide (CO) 0.5 lb/hr of particulate emissions 0.5 lb/hr of sulfur dioxide (SO2) 0.6 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P015, P016, and P017, combined (Group 2) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P015, P016, and P017, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 2 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P015, P016, and P017, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 2 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P015, P016, and P017, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

5.1 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.6 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.5 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.5 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.6 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F1-B Diesel-fired Pump (P016)

Activity Description: 6-F1-B CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
234 hp 6-F1-B CAT model 3306 diesel-fired cooling pump with no control (formerly Z050)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	5.1 lbs/hr of nitrogen oxides (NOx) 1.6 lbs/hr of carbon monoxide (CO) 0.5 lb/hr of particulate emissions 0.5 lb/hr of sulfur dioxide (SO2) 0.6 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P015, P016, and P017, combined (Group 2) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P015, P016, and P017, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 2 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P015, P016, and P017, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 2 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P015, P016, and P017, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

5.1 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.6 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.5 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.5 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.6 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F1-C Diesel-fired Pump (P017)

Activity Description: 6-F1-C CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
234 hp 6-F1-A CAT model 3306 diesel-fired cooling pump with no control (formerly Z051)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	5.1 lbs/hr of nitrogen oxides (NOx) 1.6 lbs/hr of carbon monoxide (CO) 0.5 lb/hr of particulate emissions 0.5 lb/hr of sulfur dioxide (SO2) 0.6 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P015, P016, and P017, combined (Group 2) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P015, P016, and P017, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 2 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P015, P016, and P017, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 2 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P015, P016, and P017, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

5.1 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.6 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.5 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.5 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.6 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (11.6 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P015, P016, and P017, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F3-A Diesel-fired Pump (P018)

Activity Description: 6-F3-A CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
285 hp 6-F3-A CAT model 3306 diesel-fired turbocharged cooling pump with no control (formerly Z053)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	6.2 lbs/hr of nitrogen oxides (NOx) 1.9 lbs/hr of carbon monoxide (CO) 0.6 lb/hr of particulate emissions 0.6 lb/hr of sulfur dioxide (SO2) 0.7 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P018, P019, and P020, combined (Group 3) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P018, P019, and P020, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 3 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P018, P019, and P020, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 3 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P018, P019, and P020, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

6.2 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.9 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.6 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.6 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.7 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F3-B Diesel-fired Pump (P019)

Activity Description: 6-F3-B CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
285 hp 6-F3-B CAT model 3306 diesel-fired turbocharged cooling pump with no control (formerly Z054)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	6.2 lbs/hr of nitrogen oxides (NOx) 1.9 lbs/hr of carbon monoxide (CO) 0.6 lb/hr of particulate emissions 0.6 lb/hr of sulfur dioxide (SO2) 0.7 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P018, P019, and P020, combined (Group 3) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P018, P019, and P020, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 3 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P018, P019, and P020, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 3 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P018, P019, and P020, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

6.2 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.9 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.6 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.6 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.7 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 6-F3-C Diesel-fired Pump (P020)

Activity Description: 6-F3-C CAT Diesel-fired Cooling Pump

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
285 hp 6-F3-C CAT model 3306 diesel-fired turbocharged cooling pump with no control (formerly Z055)	OAC rule 3745-31-05(A)(3) (PTI 04-01136 issued January 31, 2002)	6.2 lbs/hr of nitrogen oxides (NOx) 1.9 lbs/hr of carbon monoxide (CO) 0.6 lb/hr of particulate emissions 0.6 lb/hr of sulfur dioxide (SO2) 0.7 lb/hr of volatile organic compounds (VOC) The annual emissions from emissions units P018, P019, and P020, combined (Group 3) shall not exceed the following limitations: 3.9 tpy of NOx; 1.2 tpy of CO; 0.4 tpy of particulate emissions; 0.4 tpy of SO2; and 0.4 tpy of VOC. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6 minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)	See section A.I.2.a.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-18-06(G)	See section A.I.2.a.
	OAC rule 3745-21-07(B)	See section A.I.2.c.
	OAC rule 3745-21-08(B)	See section A.I.2.b.
	OAC rule 3745-23-06(B)	See section A.I.2.c.

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

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

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 04-01136.

II. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.

2. The annual fuel usage of emissions units P018, P019, and P020, combined, shall not exceed 18,000 gallons per year based on the rolling, 12-month summation of the diesel fuel usage.

III. Monitoring and/or Record Keeping Requirements

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

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

a. the fuel usage for each month, in gallons per month, for each Group 3 emissions unit; and

b. the rolling, 12-month summation of the fuel usage for emissions units P018, P019, and P020, combined.

3. Once each year, the permittee shall check to ensure that the injection timing is retarded 4 degrees from peak power settings and shall make adjustments if necessary.

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

IV. Reporting Requirements

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

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month fuel limitation specified in section A.II.2 for Group 3 emissions units.

3. The permittee shall also submit an annual report that includes the calendar year total emissions for NOx, CO, SO2, VOC, and particulate emissions for emissions units P018, P019, and P020, combined. This report shall be submitted to the Toledo Division of Environmental Services by April 15 of each year.

4. The permittee shall submit an annual report indicating the results of the injection timing monitoring specified in section A.III.3. This report shall be submitted by January 30th of each year and shall cover the previous calendar year.

5. The quarterly 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, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

6.2 lbs/hr of NOx

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon. This NOx emission factor was determined through a RACT/BACT/LAER study of similar sources.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A.

1.c Emission Limitation:

3.9 tpy of NOx for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage (gallons/yr) in section A.III.2 by the NOx emission factor of 3.1 pounds per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.d Emission Limitation:

1.9 lbs/hr of CO

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This CO emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A.

1.e Emission Limitation:

1.2 tpy of CO for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the CO emission factor of 0.95 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.f Emission Limitation:

0.6 lb/hr particulate emissions

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This particulate emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-17-03(B)(10).

1.g Emission Limitation:

0.4 tpy of particulate emissions for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the particulate emission factor of 0.31 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

1.h Emission Limitation:

0.6 lb/hr of SO2

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 6 of 40 CFR Part 60, Appendix A.

1.i Emission Limitation:

0.4 tpy of SO2 for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the SO2 emission factor of 0.29 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

1.j Emission Limitation:

0.7 lb/hr of VOC

Applicable Compliance Method:

Compliance may be demonstrated by multiplying the maximum fuel usage rate (14.2 gallons per hour) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon. This emission factor is specified in USEPA reference document AP-42, Stationary Internal Combustion Sources, Section 3.3, Table 3.3-1, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and Method 25 of 40 CFR Part 60, Appendix A and/or in OAC rule 3745-21-10(C).

1.k Emission Limitation:

0.4 tpy of VOC for emissions units P018, P019, and P020, combined

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month fuel usage in section A.III.2 (gallons/yr) by the VOC emission factor of 0.35 pound per million Btu, and by the heating value of 0.141 million Btu per gallon, and then dividing by 2000 lbs/ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Glass Bending Furnace #23 Printing Operation (R001)

Activity Description: RAFFO Bending Furnace #23 Printing Operation (no dryer)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
RAFFO bending furnace #23 printing operation - coating operation for nonmetal parts	OAC rule 3745-31-05(A)(3) (PTI 04-1015 issued May 22, 1996)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2).
	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 emissions 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 quarterly deviation (excursion) reports that 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 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 demonstrated 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 demonstrated 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 this 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.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Glass Bending Furnace #24 Printing Room B (R002)

Activity Description: RAFFO Bending Furnace #24 Printing Room B (no dryer)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
RAFFO bending furnace #24 Print Room B - coating operation for nonmetal parts (formerly Z052)	OAC rule 3745-31-05(A)(3) (PTI 04-1015 issued May 22, 1996)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2).
	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 emissions 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 quarterly deviation (excursion) reports that 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 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 demonstrated 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 demonstrated 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 OC contents of the coatings and cleanup materials employed in this 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.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: RAFFO Bending Furnace #24 Printing Room A (R003)

Activity Description: RAFFO Bending Furnace #24 Printing Room A with UV Dryer

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
RAFFO bending furnace #24 Print Room A - coating operation for nonmetal parts (formerly Z039)	OAC rule 3745-31-05(A)(3) (PTI 04-1015 issued May 22, 1996)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2).
	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 emissions 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 quarterly deviation (excursion) reports that 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 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 demonstrated 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 demonstrated 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 OC 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.

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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