



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: August 21, 2008

RE: Owens-Brockway Glass Container, Inc. / 095-26089-00012

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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Mr. Paul A. Johnson  
Owens-Brockway Glass Container, Inc.  
2841 South Brookside Road  
Lapel, Indiana 46051

August 21, 2008

RE: 095-26089-00012  
First Significant Permit Modification to  
Part 70 No.: T095-17520-00012

Dear Mr. Johnson:

Owens-Brockway Glass Container, Inc. was issued a Part 70 Operating Permit T095-17520-00012 on September 17, 2007 for a stationary glass container manufacturing source. An application requesting changes to this permit was received on February 12, 2008. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

Owens-Brockway Glass Container, Inc. has applied to revise the permit to allow the addition of continuous opacity monitoring equipment on an existing natural gas or propane-fired glass melting furnace, identified as furnace #32.

The changes in the Part 70 Operating Permit are documented in the Technical Support Document. All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised Title V Operating Permit, with all modifications and amendments made to it, is being provided.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact David Matousek, IDEM, Permits Branch, OAQ, 100 North Senate Avenue, MC61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027 and ask for David Matousek or extension 2-8253, or dial direct (317) 232-8253.

Original signed by,

Tripurari P. Sinha, Ph.D., Section Chief  
Permits Branch  
Office of Air Quality

Attachments  
DJM/djm

CC: File - Madison County  
U.S. EPA, Region V  
Madison County Health Department  
Air Compliance Section Inspector  
Compliance Branch  
Administrative and Development Section



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**PART 70 OPERATING PERMIT RENEWAL  
OFFICE OF AIR QUALITY  
AND ANDERSON AIR MANAGEMENT DIVISION**

**Owens-Brockway Glass Container, Inc.  
2841 South Brookside Road  
Lapel, Indiana 46051**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T095-17520-00012	
Issued by: Original signed by Nisha Sizemore, Branch Chief Office of Air Quality	Issuance Date: September 17, 2007  Expiration Date: September 17, 2012

Significant Permit Modification No.: 095-26089-00012	
Original signed by:  Tripurari P. Sinha, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 21, 2008  Expiration Date: September 17, 2012

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the City of Anderson, Air Management Division. The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary glass container manufacturing source.

Source Address:	2841 South Brookside Road, Lapel, IN 46051
Mailing Address:	2841 South Brookside Road, Lapel, IN 46051
General Source Phone Number:	765-534-0630
SIC Code:	3221
County Location:	Madison
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour, with emissions exhausting to the stack referred to as stack B. Opacity is measured by a certified continuous opacity monitor, identified as COM1. Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace;
- (b) one (1) natural gas or number 2 fuel oil fired glass melting furnace, referred to as furnace #6, constructed in 1970, with a maximum raw material input capacity of 15.5 tons per hour and a maximum heat input capacity of 64.0 million British Thermal Units per hour, producing 11 tons of glass per hour, with emissions exhausting to the stack referred to as furnace stack A;
- (c) receiving and storage operations, constructed prior to 1970, with a maximum capacity of 150 tons per hour, with particulate emissions controlled by pressure relief bags and exhausting inside the building; and
- (d) raw material mixing operations, constructed prior to 1970, with a maximum capacity of 200 tons per hour, with particulate emissions controlled by a dust collector and exhausting inside the building.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) one (1) cullet crushing operation [326 IAC 6-3-2];

- (b) mold lubrication operation, consisting of mold swabbing and automated mold sooting, including, four (4) forming machines [326 IAC 6-3-2];
- (c) hot end surface treatment (HEST) process with a baghouse [326 IAC 6-3-2];
- (d) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment [326 IAC 6-3-2];
- (e) one (1) batch house central vacuum system, as a trivial activity per 326 IAC 2-7-1(40)(G)(i) [326 IAC 6-3-2];
- (f) one (1) enclosed pneumatic blaster used to clean glass container molds, installed July 2000, using 10.96 pounds glass bead blast media per hour, with one (1) dust collector for particulate matter control exhausting outdoors [326 IAC 6-3-2];
- (g) eleven (11) cold cleaner parts washing stations used for maintenance purposes [326 IAC 8-3-2];
- (h) paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B

## GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

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- (a) This permit, T095-17520-00012, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and AAMD, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7]

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- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and AAMD, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by the City of Anderson, Air Management Division.

### B.5 Severability [326 IAC 2-7-5(5)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ and AAMD, within a reasonable time, any information that IDEM, OAQ and AAMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ and AAMD copies of records required to be kept by this permit.

- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]**

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) the "responsible official" is defined at 326 IAC 2-7-1(34).

**B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and AAMD on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;

- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ and AAMD may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)]  
[326 IAC 1-6-3]

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ and AAMD upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and AAMD. IDEM, OAQ and AAMD may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and AAMD within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865  
City of Anderson, Air Management Division phone: (765) 648-6158; fax: (765) 648-5924

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ and AAMD may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ and AAMD by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.  

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, or AAMD shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, or AAMD has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, or AAMD has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T095-17520-00012 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, and AAMD determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, and AAMD to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, and AAMD at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, and AAMD may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.17 Permit Renewal** [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and AAMD and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this

permit; and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and AAMD on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and AAMD takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and AAMD any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
and  
  
City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018  
  
Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

**B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]**

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(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and AAMD in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and

- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5][326 IAC 2-2-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, and AAMD or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.24 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, and AAMD within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, and AAMD the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]**

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For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

**C.2 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**C.3 Open Burning [326 IAC 4-1][IC 13-17-9]**

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

**C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]**

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

**C.5 Fugitive Dust Emissions [326 IAC 6-4]**

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

**C.6 Stack Height [326 IAC 1-7]**

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

**C.7 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to

thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### Testing Requirements [326 IAC 2-7-6(1)]

#### C.8 Performance Testing [326 IAC 3-6]

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and AAMD not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and AAMD if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### Compliance Requirements [326 IAC 2-1.1-11]

#### C.9 Compliance Requirements [326 IAC 2-1.1-11]

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

### Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

#### C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time, weather and daylight permitting.
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.
  - (3) Method 9 readings may be discontinued once a COMS is online.
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 60 and/or 40 CFR 63).

**C.12 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]**

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**C.13 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

**C.14 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on February 3, 1999.
- (b) Upon direct notification by IDEM, OAQ and AAMD that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.15 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

**C.16 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]**

**C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]**

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
  - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

The emission statement does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and AAMD on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6][326 IAC 2-2]  
[326 IAC 2-3]

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or AAMD makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or AAMD within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (II)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project.
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;

- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
  - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11][326 IAC 2-2-3]  
[326 IAC 2-3]

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
and  
  
City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and AAMD on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and AAMD:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, Indiana 46018

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and AAMD. The general public may request this information from the IDEM, OAQ and AAMD under 326 IAC 17.1.

## **Stratospheric Ozone Protection**

### **C.21 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

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

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour with emissions exhausting to the stack referred to as stack B. Opacity is measured by a certified continuous opacity monitor, identified as COM1. Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 PSD Minor Limit [326 IAC 2-2]

Pursuant to PC(48) 1633, issued on January 19, 1987, and revised by this Part 70 renewal permit T095-17520-00012:

- (a) PM/PM<sub>10</sub> emissions from furnace #32 shall be limited to 55 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The PM/PM<sub>10</sub> emissions will be determined from the following equation:

$$\text{PM (tons/month)} = E_{\text{PM}} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \\ \times \text{(ton/2000 pounds)}$$

$$\text{PM}_{10} \text{ (tons/month)} = E_{\text{PM}_{10}} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \\ \times \text{(ton/2000 pounds)}$$

where:

$E_{\text{PM}}$  = pounds PM/ton glass produced determined from the most recent IDEM approved stack test

$E_{\text{PM}_{10}}$  = pounds PM<sub>10</sub>/ton glass produced determined from the most recent IDEM approved stack test

- (b) NO<sub>x</sub> emissions from furnace #32 shall be limited to 443 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

The NO<sub>x</sub> emissions will be determined from the following equation:

$$\text{NO}_x \text{ (tons/month)} = E_{\text{NO}_x} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \\ \times \text{(ton/2000 pounds)}$$

where:

$E_{\text{NO}_x}$  = pounds NO<sub>x</sub>/ton glass produced determined from the most recent IDEM approved stack test

Compliance with these limits shall render the requirements of 326 IAC 2-2, PSD, not applicable to the 1987 modification of furnace #32 for emissions of PM/PM<sub>10</sub> and NO<sub>x</sub>.

#### D.1.2 PSD Best Available Control Technology Limit [326 IAC 2-2-3 (PSD)]

Pursuant to 326 IAC 2-2-3 (PSD) and CP 095-8204-00012 issued March 10, 1998, the Permittee shall comply with the following Best Available Control Technology (BACT) limits for furnace #32:

- (a) The fuel used in furnace #32 shall be limited to natural gas or an alternate fuel with a pounds SO<sub>2</sub>/MMBtu emission rate less than or equal to that of natural gas (0.0006 lbs SO<sub>2</sub>/MMBtu),
- (b) The sulfur content input to the amber glass batch shall be limited to 0.3% by weight, and
- (c) The SO<sub>2</sub> emission rate shall not exceed 193.4 tons per year.

**D.1.3 Particulate [326 IAC 12][40 CFR 60, Subpart CC]**

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Pursuant to 40 CFR 60, Subpart CC - Standards of Performance for Glass Manufacturing Plants, the particulate matter emissions from glass melting furnace #32 shall not exceed 0.5 grams of particulate per kilogram (1.0 pound per ton) of glass produced.

**D.1.4 Arsenic [40 CFR Part 61, Subpart N]**

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Commercial arsenic shall not be used as a raw material in furnace #32. Therefore, the requirements of 40 CFR Part 61.160, Subpart N (National Emission Standards for Inorganic Arsenic Emissions from Glass Manufacturing Plants) shall not apply.

**D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for furnace #32.

**Compliance Determination Requirements**

**D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11][326 IAC 12][326 IAC 3-5-3]  
[40 CFR 60, Subpart CC]**

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- (a) Before April 11, 2013 and in order to demonstrate compliance with Conditions D.1.1, D.1.2(c), D.1.3 and E.1.2 during amber glass production, the Permittee shall perform PM/PM<sub>10</sub>, NO<sub>x</sub> and SO<sub>2</sub> emissions testing on furnace #32, exhausting to stack B, utilizing methods as approved by the Commissioner. These tests shall be performed at a minimum of ninety percent (90%) glass production rate and data shall be extrapolated for peak load operation. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with the Section C - Performance Testing.
- (b) Within one-hundred and eighty (180) days of commencing flint and green glass production, the Permittee shall perform PM/PM<sub>10</sub>, NO<sub>x</sub> and SO<sub>2</sub> emissions testing on furnace #32, exhausting to stack B, in order to demonstrate compliance with Conditions D.1.1, D.1.2(c), D.1.3 and E.1.2 utilizing methods as approved by the Commissioner. These tests shall be performed at a minimum of ninety percent (90%) glass production rate and data shall be extrapolated for peak load operation. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C - Performance Testing.

**D.1.7 Sulfur Dioxide Emissions and Sulfur Content**

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- (a) Compliance with Condition D.1.2(b) shall be determined for each glass batch formulation as follows:
  - (1) For each of the batch ingredients, multiply pounds (lbs) of material per batch and weight percent (%) sulfur to give the amount of sulfur from that batch ingredient. The percent sulfur used for the calculation is from available data (analytical test data or supplier data).
  - (2) Summation of the results from paragraph (1) will give total pounds (lbs) of sulfur in the batch.
  - (3) Total pounds (lbs) of sulfur in the batch is divided by total pounds (lbs) of one batch and this ratio is multiplied by 100 to give percent sulfur by weight in the

batch.

- (b) Compliance with Condition D.1.2(c) shall be determined as follows:

$$\text{SO}_2 \text{ (tons/month)} = E_{\text{SO}_2} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \\ \times \text{(ton/2000 pounds)}$$

where:

$E_{\text{SO}_2}$  = pounds  $\text{SO}_2$ /ton glass produced determined from the most recent IDEM approved stack test

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]**

#### **D.1.8 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.1 and D.1.2(c), the Permittee shall maintain records in accordance with (1) and (2) below.
- (1) Amount (tons) and type of glass produced each month at furnace #32;
  - (2) Amount (tons) of  $\text{SO}_2$ ,  $\text{PM}/\text{PM}_{10}$  and  $\text{NO}_x$  emitted each month and during each compliance period.
- (b) To document compliance with Conditions D.1.2(a) and (b), the Permittee shall maintain records in accordance with (1) through (5) below.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel usage since last compliance determination period;
  - (3) To certify compliance with burning only natural gas or equivalent lower sulfur containing fuel, the Permittee shall maintain records of fuel used.
  - (4) If the material supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:
    - (A) Material supplier certifications;
    - (B) The name of the supplier; and
    - (C) A statement from the supplier that certifies the sulfur content of the material used as input to the batch.
  - (5) If Permittee analysis is used to demonstrate compliance, the analytical method used and approved by IDEM, OAQ shall be maintained along with the computational methods and results.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.4, the Permittee shall certify in accordance with Section B - Annual Compliance Certification, that no commercial arsenic has been utilized at the furnace during the compliance period.

- (d) Pursuant to 326 IAC 3-5-4, the Permittee shall prepare and submit to IDEM, OAQ and AAMD, a complete written continuous monitoring system standard operating procedure (SOP) for glass melting furnace #32, within ninety (90) days of installation of COM1. At a minimum, the SOP shall contain the information required by 326 IAC 3-5-4(a). If future revisions are made, the revised SOP shall be submitted to IDEM, OAQ and AAMD, at least biennially.
- (e) To document compliance with Condition D.1.3, the Permittee shall maintain records for the continuous opacity monitoring system, including raw data, as required by 326 IAC 3-5-6. Records shall include all measurements, all COM system evaluations, calibration checks, adjustments, maintenance performed on the system, and all other data collected by the COM system in permanent form suitable for inspection. These records shall be maintained for a period of five (5) years following the date of such measurements, maintenance activities or reports.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

#### D.1.9 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2(c), and D.1.7(b) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7, from the continuous monitoring system, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (b) One (1) natural gas or number 2 fuel oil fired glass melting furnace, referred to as furnace #6, constructed in 1970, with a maximum raw material input capacity of 15.5 tons per hour and a maximum heat input capacity of 64.0 million British Thermal Units per hour, producing 11 tons of glass per hour with emissions exhausting to the stack referred to as furnace stack A

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the furnace #6 shall not exceed 25.7 pounds per hour when operating at a process weight rate of 15.5 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### D.2.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1]

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emission Limitations) the SO<sub>2</sub> emissions from furnace #6, with a maximum heat input capacity of 64.0 MMBtu per hour, shall not exceed five tenths (0.5) pound per MMBtu heat input when combusting #2 fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

#### D.2.3 Arsenic [40 CFR Part 61.160, Subpart N]

Commercial arsenic shall not be used as a raw material in furnace #6. Therefore, the requirements of 40 CFR Part 61.160, Subpart N (National Emission Standards for Inorganic Arsenic Emissions from Glass Manufacturing Plants) shall not apply.

#### D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility.

### Compliance Determination Requirements

#### D.2.5 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options when burning No. 2 fuel oil in the furnace.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
- (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or,
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

- (A) Oil samples may be collected from the fuel tank immediately after fuel tank is filled and before any oil is combusted; and
  - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the furnace #6, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]**

#### **D.2.6 Visible Emissions Notations**

---

- (a) Daily visible emission notations of the furnace #6 stack exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, reading shall be taken during that part of the operation that would normally be expected to cause the greatest emissions for that specific process.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)][326 IAC 2-7-19]**

#### **D.2.7 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained from (1) through (6) shall be taken monthly and shall be complete and suffice to establish compliance with the SO<sub>2</sub> emission limit established in D.2.2.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions associated with the burning of the fuel oil;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplied certifications represent all of the fuel combusted during the period; and if the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:
    - (4) Fuel supplier certifications;
    - (5) The name of the fuel supplier; and
    - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.2.3, the Permittee shall certify in accordance with Section B - Annual Compliance Certification, that no commercial arsenic has been utilized at the furnace during the compliance period.
- (c) To document compliance with Condition D.2.6, the Permittee shall maintain records of daily visible emission notations of the furnace stack exhaust. The Permittee shall include in their daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**SECTION D.3 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]:**

- (c) Receiving and storage operations, constructed prior to 1970, with a maximum capacity of 150 tons per hour, with emissions controlled by pressure relief bags and exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.3.1 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Process), the allowable particulate emission rate from the receiving and storage operation shall not exceed 55.4 pounds per hour when operating at the maximum capacity of 150 tons per hour.

This limitation is based on the following equation:

Interpolation and extrapolation of the data for the process weight greater than sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55 (P^{0.11}) - 40 \quad \text{where } E = \text{rate of emission in pounds per hour, and} \\ P = \text{process weight rate in tons per hour}$$

**D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

**SECTION D.4 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]**

- (d) raw material mixing operations, constructed prior to 1970, with a maximum capacity of 200 tons per hour, with emissions controlled by a dust collector and exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.4.1 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Process), the allowable particulate emission rate from the raw materials mixing operation shall not exceed 58.5 pounds per hour when operating at the maximum capacity of 200 tons per hour.

This limitation is based on the following equation:

Interpolation and extrapolation of the data for the process weight greater than sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55 (P^{0.11}) - 40 \quad \text{where } E = \text{rate of emission in pounds per hour, and} \\ P = \text{process weight rate in tons per hour}$$

**D.4.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

## SECTION D.5 FACILITY OPERATING CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]

The following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(12):

- (a) one (1) cullet crushing operation [326 IAC 6-3-2];
- (b) mold lubrication operation, consisting of mold swabbing and automated mold sooting, including, four (4) forming machines [326 IAC 6-3-2];
- (c) hot end surface treatment (HEST) process with a baghouse [326 IAC 6-3-2];
- (d) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment [326 IAC 6-3-2];
- (e) one (1) batch house central vacuum system, as a trivial activity per 326 IAC 2-7-1(40)(G)(i) [326 IAC 6-3-2];
- (f) one (1) enclosed pneumatic blaster used to clean glass container molds, installed July 2000, using 10.96 pounds glass bead blast media per hour, with one (1) dust collector for particulate matter control exhausting outdoors [326 IAC 6-3-2];
- (g) eleven (11) cold cleaner parts washing stations used for maintenance purposes [326 IAC 8-3-2];
- (h) paved and unpaved roads and parking lots with public access. [326 IAC 6-4].

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### Process Weight Activities

##### D.5.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Process), the allowable particulate emission rate from the insignificant activities, including cullet crushing, mold lubrication, HEST, cutting and welding, pneumatic blaster and vacuum system processes, shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

#### Degreasing Operations

##### D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

## SECTION E.1 SOURCE OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour with emissions exhausting to the stack referred to as stack B. Opacity is measured by a certified continuous opacity monitor, identified as COM1. Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1]

#### [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for furnace #32 except as otherwise specified in 40 CFR Part 60, Subpart CC.

- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue,  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

### E.1.2 NSPS Requirements [40 CFR Part 60, Subpart CC][326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart CC (Standards of Performance for Glass Manufacturing Plants), the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart CC, which are incorporated by reference as 326 IAC 12 (included as Attachment A of this permit) for glass melting furnace #32 as specified as follows:

- (1) 40 CFR 60.290(a)
- (2) 40 CFR 60.290(b)
- (3) 40 CFR 60.290(c)
- (4) 40 CFR 60.291
- (5) 40 CFR 60.293(a)
- (6) 40 CFR 60.293(b)
- (7) 40 CFR 60.293(b)(1)
- (8) 40 CFR 60.293(c)
- (9) 40 CFR 60.293(c)(1)
- (10) 40 CFR 60.293(c)(2)
- (11) 40 CFR 60.293(c)(3)
- (12) 40 CFR 60.293(c)(4)
- (13) 40 CFR 60.293(c)(5)
- (14) 40 CFR 60.293(e)
- (15) 40 CFR 60.293(e)(1)
- (16) 40 CFR 60.293(e)(2)
- (17) 40 CFR 60.293(e)(3)
- (18) 40 CFR 60.293(f)

- (19) 40 CFR 60.296(a)
- (20) 40 CFR 60.296(c)
- (21) 40 CFR 60.296(d)
- (22) 40 CFR 60.296(d)(1)
- (23) 40 CFR 60.296(d)(2)
- (24) 40 CFR 60.296(d)(3)
- (25) 40 CFR 60.296(d)(4)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**and  
City of Anderson, Air Management Division**

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Owens-Brockway Glass Container Inc.  
Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Part 70 Permit No.: T095-17520-00012

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**and  
City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8<sup>th</sup> Street  
Anderson, Indiana 46018  
Phone: 317-646-9835  
Fax: 317-646-9657**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Owens-Brockway Glass Container Inc.  
Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Part 70 Permit No.: T095-17520-00012

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

--

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### Part 70 Quarterly Report

Source Name: Owens-Brockway Glass Container Inc.  
 Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
 Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
 Part 70 Permit No.: T095-17520-00012  
 Facility: Furnace #32  
 Parameter: PM/PM<sub>10</sub> Emissions  
 Limit: 55 tons per twelve (12) month period with compliance determine at the end of each month

The PM/PM<sub>10</sub> emissions will be determined from the following equation:

$$PM \text{ (tons/month)} = E_{PM} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \times (\text{ton}/2000 \text{ pounds})$$

$$PM_{10} \text{ (tons/month)} = E_{PM_{10}} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \times (\text{ton}/2000 \text{ pounds})$$

where:

$E_{PM}$  = pounds PM/ton glass produced determined from the most recent IDEM approved stack test

$E_{PM_{10}}$  = pounds PM<sub>10</sub>/ton glass produced determined from the most recent IDEM approved stack test

YEAR: \_\_\_\_\_ QUARTER: \_\_\_\_\_

Month	Column 1	Column 2	Columns 1+2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

## Part 70 Quarterly Report

Source Name: Owens-Brockway Glass Container Inc.  
Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Part 70 Permit No.: T095-17520-00012  
Facility: Furnace #32  
Parameter: NO<sub>x</sub> Emissions  
Limit: 443 tons per twelve (12) month period with compliance determine at the end of each month

The NO<sub>x</sub> emissions will be determined from the following equation:

$$NO_x \text{ (tons/month)} = E_{NO_x} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \times (\text{ton}/2000 \text{ pounds})$$

where:

$E_{NO_x}$  = pounds NO<sub>x</sub>/ton glass produced determined from the most recent IDEM approved stack test

YEAR: \_\_\_\_\_ QUARTER: \_\_\_\_\_

Month	Column 1	Column 2	Columns 1+2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report**

Source Name: Owens-Brockway Glass Container Inc.  
Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Part 70 Permit No.: T095-17520-00012  
Facility: Furnace #32  
Parameter: SO<sub>2</sub> Emissions  
Limit: 193.4 tons per twelve (12) month period with compliance determine at the end of each month

The SO<sub>2</sub> emissions will be determined from the following equation:

$$SO_2 \text{ (tons/month)} = E_{SO_2} \text{ (lbs/ton)} \times \text{monthly glass production rate (tons)} \times (\text{ton}/2000 \text{ pounds})$$

where:

E<sub>SO<sub>2</sub></sub> = pounds SO<sub>2</sub>/ton glass produced determined from the most recent IDEM approved stack test

YEAR: \_\_\_\_\_ QUARTER: \_\_\_\_\_

Month	Column 1	Column 2	Columns 1+2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION  
and  
Anderson Office of Air Management**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Owens-Brockway Glass Container Inc.  
Source Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Mailing Address: 2841 South Brookside Road, Lapel, Indiana 46051  
Part 70 Permit No.: T095-17520-00012

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Anderson Air Management Division**

**Technical Support Document (TSD) for a  
Part 70 Significant Permit Modification**

**Source Description and Location**

Source Name:	Owens-Brockway Glass Container, Inc.
Source Location:	2841 South Brookside Road, Lapel, IN 46051
County:	Madison County
SIC Code:	3221
Operation Permit Renewal No.:	T 095-17520-00012
Operation Permit Renewal Issuance Date:	September 17, 2007
Significant Permit Modification No.:	095-26089-00012
Permit Reviewer:	David J. Matousek

**Existing Approvals**

The source was issued Part 70 Operating Permit Renewal No. T095-17520-00012 on September 17, 2007. The source has not received any additional approvals since the issuance of Part 70 Renewal No. T095-17520-00012.

**County Attainment Status**

The source is located in Madison County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective October 19, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.
- (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Madison County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) PM<sub>2.5</sub>  
Madison County has been classified as attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions.
- (c) Other Criteria Pollutants  
Madison County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions  
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, however, there is an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

#### Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Pollutant	Actual Emissions (ton/yr)
PM	73.0
PM <sub>10</sub>	73.0
SO <sub>2</sub>	221.0
VOC	19.0
CO	27.0
NO <sub>x</sub>	310.0
HAP	Not Reported
Total HAPs	Not Reported

#### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Owens-Brockway Glass Container, Inc. on February 12, 2008, relating to the addition of continuous opacity monitoring equipment on an existing natural gas or propane-fired glass melting furnace, identified as furnace #32. The following is a list of revised emission units and pollution control equipment:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour, with emissions exhausting to stack B. Opacity is measured by a certified continuous opacity monitor, identified as COM1. Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace.

The U.S. EPA approved an alternate monitoring procedure for opacity on glass melting furnace #32 on July 8, 1987 under CP 095-8204. The source was approved to use a bridgwall optical temperature as a continuous monitoring method. Upon further review by the U.S. EPA and IDEM, OAQ, it has been determined a manually measured temperature does not comply with the requirement to continuously monitor opacity. To satisfy the concerns of both the U.S. EPA and IDEM, OAQ, the source has elected to install a continuous opacity monitor on glass melting furnace #32. The source will continue to measure the bridgwall optical temperature; however, the measurements will be used for operational control of the furnace only.

#### **Enforcement Issues**

There are no pending enforcement actions.

#### **Emission Calculations**

This permit modification does not involve new sources of emissions; therefore, no emission calculations are required.

#### **Permit Level Determination – Part 70**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

There is no increase in the potential to emit of any regulated pollutants associated with this modification.

This modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because the application does not qualify as a minor permit modification or as an administrative amendment due to significant changes in existing monitoring, reporting and record keeping requirements.

#### **Permit Level Determination – PSD or Emission Offset**

This modification to an existing major stationary source is not major because there are no increases in the potential to emit of any regulated pollutants. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

#### **Federal Rule Applicability Determination**

##### **NSPS:**

- (a) Glass melting furnace #32, constructed in 1987 and modified in 1998, is subject to the requirements of the New Source Performance Standard for Glass Manufacturing Plants, 40 CFR 60.290 - 60.296, Subpart CC, because it is a glass melting furnace constructed after June 15, 1979 and it is not a hand melting furnace, a glass melting furnace producing less than five (5) tons of glass per day or an all-electric melter. The Permittee has selected the glass melting furnace with modified-processes option.

Glass melting furnace #32 is subject to the following portions of Subpart CC:

- (1) 40 CFR 60.290(a)
- (2) 40 CFR 60.290(b)
- (3) 40 CFR 60.290(c)
- (4) 40 CFR 60.291

- (5) 40 CFR 60.293(a)
- (6) 40 CFR 60.293(b)
- (7) 40 CFR 60.293(b)(1)
- (8) 40 CFR 60.293(c)
- (9) 40 CFR 60.293(c)(1)
- (10) 40 CFR 60.293(c)(2)
- (11) 40 CFR 60.293(c)(3)
- (12) 40 CFR 60.293(c)(4)
- (13) 40 CFR 60.293(c)(5)
- (14) 40 CFR 60.293(e)
- (15) 40 CFR 60.293(e)(1)
- (16) 40 CFR 60.293(e)(2)
- (17) 40 CFR 60.293(e)(3)
- (18) 40 CFR 60.293(f)
- (19) 40 CFR 60.296(a)
- (20) 40 CFR 60.296(c)
- (21) 40 CFR 60.296(d)
- (22) 40 CFR 60.296(d)(1)
- (23) 40 CFR 60.296(d)(2)
- (24) 40 CFR 60.296(d)(3)
- (25) 40 CFR 60.296(d)(4)

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart CC.

<b>State Rule Applicability Determination</b>
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The following state rules are applicable to the source due to this modification:

**326 IAC 2-2 and 2-3 (PSD and Emission Offset)**

There are no emission increases related to this modification; therefore, the requirements of 326 IAC 2-2 and 326 IAC 2-3 do not apply.

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from glass melting furnace #32 shall not exceed 32.7 pounds per hour when operating at a process weight rate of 22.2 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

The glass melting furnace has an applicable particulate matter emission limitation under 40 CFR 60.293(b)(1), Subpart CC, incorporated by reference as 326 IAC 12-1. The particulate matter emission limitation is 0.5 gram of particulate per kilogram (1.0 pound particulate/ton) of glass produced.

Pursuant to 326 IAC 6-3-1(c)(5), the particulate matter limitation of 326 IAC 6-3-2 does not apply because a more stringent particulate matter limitation exists in 326 IAC 12, concerning new source performance standards.

**326 IAC 3-5 (Continuous Monitoring of Emissions)**

Glass melting furnace #32 is subject to the requirements of 326 IAC 3-5, because this facility is required to perform continuous monitoring under 326 IAC 12, which incorporates by reference the requirements of 40 CFR 60.

### Compliance Determination and Monitoring Requirements

The New Source Performance Standards (NSPS) monitoring by COMs is required.

### Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 095-17520-00012. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

#### Change #1

All references to the City of Anderson, Air Management Division (AOAM) have been updated to City of Anderson, Air Management Division (AAMD). In addition, all references to the mailing address have been revised as follows:

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, Indiana 46014~~8~~

#### Change #2

Existing Section A.1 has been updated to reflect the current attainment status of Madison County, Indiana. The source and mailing address has been updated. Because Madison County is now in attainment for all criteria pollutants, the source status has been updated to remove the reference to Emission Offset Rules.

#### A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary glass container manufacturing source.

Source Address:	<del>248841</del> South Brookside Road, Lapel, IN 46051
Mailing Address:	<del>248841</del> South Brookside Road, Lapel, IN 46051
General Source Phone Number:	765-534-3424 <b>0630</b>
SIC Code:	3221
County Location:	Madison
Source Location Status:	<del>Nonattainment for 8-hour ozone standard</del> Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules <del>Major Source, under Emission Offset Rules</del> Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

#### Change #3

The emission unit and pollution control equipment summary in Section A.1 has been updated to reflect the addition of the continuous opacity monitor (COM) for glass melting furnace #32. The revised portions of the section follow:

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour, with emissions exhausting to the stack referred to as ~~Furnace S~~stack B. **Opacity is measured by a certified continuous opacity monitor, identified as COM1.** Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace;

#### Change #4

Existing Conditions B.16 - Permit Modification, Reopening, Revocation and Reissuance, or Termination and B.24 - Annual Fee Payment have been revised to indicate action by both IDEM and AAMD is required. All references to AOAM have been changed to AAMD. The revised conditions follow:

#### B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, ~~or AOAM~~ and **AAMD** determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, ~~or AOAM~~ and **AAMD** to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, ~~or AOAM~~ and **AAMD** at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, ~~or AOAM~~ and **AAMD** may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

#### B.24 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, and ~~AOAM~~ **AAMD** within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, ~~or AOAM~~ and **AAMD** the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

#### Change #5

The last sentence of original Condition C.3 - Open Burning, was deleted because the provisions of 326 IAC 9-1-2 are federally enforceable and are included in Indiana's State Implementation Plan (SIP).

#### C.3 Open Burning [326 IAC 4-1][IC 13-17-9]

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The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in

accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. ~~326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.~~

#### **Change #6**

A new condition, C.11 - Maintenance of Continuous Opacity Monitoring Equipment has been added to the permit to describe the requirements for operation of the proposed continuous opacity monitor (COM). This condition has been added to the table of contents and the remaining conditions have been renumbered.

#### **C.11 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]**

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.**
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.**
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.**
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.**
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time, weather and daylight permitting.**
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.**
  - (3) Method 9 readings may be discontinued once a COMS is online.**
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.**
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 60 and/or 40 CFR 63).**

#### **Change #7**

The clean unit and pollution control project provisions of the U.S. EPA's New Source Review Reform Rules were vacated on June 24, 2005 by a United States Court of Appeals for the District of Columbia Circuit decision. The OAQ plans to remove the vacated provisions from 326 IAC 2 at the next state rulemaking opportunity. Paragraph (c) of Condition C.18, General Record Keeping Requirements, has been revised to remove references to the clean unit and pollution control project provisions. This decision also remanded the "reasonable possibility" standard back to U.S. EPA. On January 22, 2008 U.S. EPA promulgated a rule to address the remand, by the U.S. Court of Appeals for the District of Columbia on June 25, 2005, of the reasonable possibility provisions of the December 31, 2002 major NSR reform rule. IDEM has agreed, with U.S. EPA, to interpret "reasonable possibility" in 326 IAC 2-2 and 326 IAC 2-3 consistent with the January 22, 2008 U.S. EPA rule. To implement this

interpretation, IDEM is revising Section C - General Record Keeping Requirements and Section C - General Reporting Requirements.

**C.189** General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6][326 IAC 2-2]  
[326 IAC 2-3]

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...

- (c) If there is a **reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b))** that a “project” (as defined in 326 IAC 2-2-1(qq) **and/or 326 IAC 2-3-1(II)**) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) **and/or 326 IAC 2-3-1(z)**) **may result in significant emissions increase and** the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

...

- (d) **If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a))** that a “project” (as defined in 326 IAC 2-2-1(qq) **and/or 326 IAC 2-3-1(II)**) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) **and/or 326 IAC 2-3-1(z)**) **may result in significant emissions increase and** the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

- (21) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (32) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

**C.4920** General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11][326 IAC 2-2]  
[326 IAC 2-3]

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...

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 460148

...

- (f) If the Permittee is required to comply with the recordkeeping provisions of (ed) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and AAMD:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) **The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:**
- (1) **The name, address, and telephone number of the major stationary source.**
  - (2) **The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.**
  - (3) **The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).**
  - (4) **Any other information that the Permittee deems fit to include in this report.**

**Reports required in this part shall be submitted to:**

**Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251**

**and**

**City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, Indiana 46018**

- (gh) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and AAMD. The general public may request this information from the IDEM, OAQ and AAMD under 326 IAC 17.1.

#### **Change #8**

Condition D.1.3 has been modified to remove references to 326 IAC 6-3-2 and to insert the particulate matter emission limitation of 326 IAC 12 and NSPS, 40 CFR 60, Subpart CC. The revised condition follows:

**D.1.3 Particulate [326 IAC 6-3-2][362 IAC 12][40 CFR 60, Subpart CC]**

~~Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes), the allowable particulate emission rate from glass melting furnace #32 shall not exceed 32.7 pounds per hour when operating at a process weight rate of 22.2 tons per hour.~~

~~The pounds per hour limitation was calculated with the following equation:~~

~~Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:~~

$$\text{E} = 4.10 \text{ P}^{0.67} \text{ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour}$$

**Pursuant to 40 CFR 60, Subpart CC - Standards of Performance for Glass Manufacturing Plants, the particulate matter emissions from glass melting furnace #32 shall not exceed 0.5 grams of particulate per kilogram (1.0 pound per ton) of glass produced.**

**Change #9**

Condition D.1.6 has been modified to update the stack testing requirements. This source conducted the stack tests required by Condition D.1.6 on April 11, 2008. In addition, the installation of the COM removes the regulatory requirement to monitor the bridgewall temperature. The revised condition follows:

**D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11][326 IAC 12][326 IAC 3-5-3] [40 CFR 60, Subpart CC]**

- (a) ~~Before April 11, 2013 and in~~ order to demonstrate compliance with Conditions D.1.1, D.1.2(c), **D.1.3** and ~~D.1.43~~ **E.1.2** during amber glass production, the Permittee shall perform PM/PM<sub>10</sub>, NO<sub>x</sub> and SO<sub>2</sub> emissions testing on furnace #32, **exhausting to** stack B, utilizing methods as approved by the Commissioner. ~~During the testing the Permittee shall also determine the furnace bridgewall optical temperature to determine compliance with Condition D.1.8.~~ These tests shall be performed at a minimum of ninety percent (90%) glass production rate and data shall be extrapolated for peak load operation. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with the Section C - Performance Testing.
- (b) Within one-hundred and eighty (180) days of commencing flint and green glass production, the Permittee shall perform PM/PM<sub>10</sub>, NO<sub>x</sub> and SO<sub>2</sub> emissions testing on furnace #32, **exhausting to** stack B, in order to demonstrate compliance with the Conditions D.1.1, D.1.2(c), **D.1.3** and ~~D.1.43~~ **E.1.2** utilizing methods as approved by the Commissioner. ~~During the testing the Permittee shall also determine the furnace bridgewall optical temperature to determine compliance with Condition D.1.8.~~ These tests shall be performed at a minimum of ninety percent (90%) glass production rate and data shall be extrapolated for peak load operation. This testing shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C - Performance Testing.

**Change #10**

Existing Condition D.1.8 - Bridgewall Temperature has been removed because the installation of the continuous opacity monitor removes the regulatory requirement to conduct bridgewall temperature measurements. In addition, existing condition D.1.9 - Visible Emission Notations has been removed due to the installation of the continuous opacity monitor. The conditions removed follow; all remaining conditions have been renumbered to reflect the removal of these conditions:

~~D.1.8 Bridgewall Temperature [40 CFR Part 60 Subpart CC][326 IAC 3-5]~~

- ~~(a) In lieu of installing a continuous opacity monitor (COM), the alternate procedure approved by EPA on July 8, 1987, and by CP 095-8204 issued on March 10, 1998, of using maximum bridgewall temperature as demonstration of particulate compliance shall be~~

~~accepted. A continuous monitoring system shall be calibrated, maintained, and operated on the furnace to measure the bridgewall optical temperature. A bridgewall optical temperature of 2,859 degrees F, or the temperature established during the most recent performance test, shall be maintained as the maximum temperature during furnace operation.~~

- ~~(b) The Permittee shall determine the bridgewall optical temperature from the most recent valid stack test during amber glass production that demonstrates compliance with the limits in Condition D.1.13, as approved by IDEM.~~

#### D.1.9 Visible Emissions Notations

- ~~(a) Daily visible emission notations of the furnace stack exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.~~
- ~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~
- ~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~
- ~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~
- ~~(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C Response to Excursions or Exceedances shall be considered a deviation from this permit.~~

#### **Change #11**

Existing Condition D.1.10 - Record Keeping Requirements has been renumbered to Condition D.1.8 and additional record keeping requirements have been added due to the installation of the continuous opacity monitor. The revised condition follows:

#### D.1.408 Record Keeping Requirements

...

- ~~(d) To document compliance with Conditions D.1.8, D.1.13 and D.1.14, the Permittee shall maintain all continuous optical temperature records for the furnace and the temperature used to demonstrate compliance during the most recent compliant stack test.~~
- ~~(e) To document compliance with Condition D.1.9, the permittee shall maintain records of daily visible emission notations of the furnace stack exhaust. The Permittee shall include in their daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).~~
- (d) Pursuant to 326 IAC 3-5-4, the Permittee shall prepare and submit to IDEM, OAQ and AAMD, a complete written continuous monitoring system standard operating procedure (SOP) for glass melting furnace #32, within ninety (90) days of installation of COM1. At a minimum, the SOP shall contain the information required by 326 IAC 3-5-4(a). If future revisions are made, the revised SOP shall be submitted to IDEM, OAQ and AAMD, at least biennially.**
- (e) To document compliance with Condition D.1.3, the Permittee shall maintain records for the continuous opacity monitoring system, including raw data, as required by 326 IAC 3-5-6. Records shall include all measurements, all COM system evaluations,**

**calibration checks, adjustments, maintenance performed on the system, and all other data collected by the COM system in permanent form suitable for inspection. These records shall be maintained for a period of five (5) years following the date of such measurements, maintenance activities or reports.**

...

#### **Change #12**

Existing Condition D.1.11 - Reporting Requirements has been renumbered to Condition D.1.9. The requirement to report excess opacity emissions for glass melting furnace #32 has been added to the existing condition. The revised condition follows:

#### **D.1.149 Reporting Requirements**

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- (a)** A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2(c), and D.1.7(b) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
  
- (b)** **A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7, from the continuous monitoring system, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported.**

#### **Change #13**

The applicable portions of the NSPS have been revised to reflect the addition of the continuous opacity monitoring system. Existing Conditions D.1.12 and D.1.13 have been relocated to Section E.1, which is specifically dedicated to the NSPS. In addition, existing Condition D.1.14 is no longer applicable and has been removed entirely. Revisions to Sections D and Section E follow:

#### ~~D.1.12 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]~~

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- ~~(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A — General Provisions, which are incorporated by reference as 326 IAC 12-1 for furnace #32 except as otherwise specified in 40 CFR Part 60, Subpart GG.~~
  
- ~~(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:~~

~~Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue,  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204 2251~~

~~and~~

~~City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018~~

#### ~~D.1.13 NSPS Requirements [40 CFR Part 60, Subpart CC][326 IAC 12]~~

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~~Pursuant to 40 CFR Part 60, Subpart CC (Standards of Performance for Glass Manufacturing Plants), the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart CC, which are incorporated by reference as 326 IAC 12 for furnace #32 as specified as follows:~~

~~§ 60.290—Applicability and designation of affected facility.~~

~~(a) Each glass melting furnace is an affected facility to which the provisions of this subpart apply.~~

~~(b) Any facility under paragraph (a) of this section that commences construction or modification after June 15, 1979, is subject to the requirements of this subpart.~~

~~(c) This subpart does not apply to hand glass melting furnaces, glass melting furnaces designed to produce less than 4.55 Mg (5 tons) of glass per day and all electric melters.~~

[45 FR 66751, Oct. 7, 1980, as amended at 65 FR 61759, Oct. 17, 2000]

~~§ 60.291—Definitions.~~

~~As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part, unless otherwise required by the context.~~

~~*All-electric melter* means a glass melting furnace in which all the heat required for melting is provided by electric current from electrodes submerged in the molten glass, although some fossil fuel may be charged to the furnace as raw material only.~~

~~*Borosilicate recipe* means glass product composition of the following approximate ranges of weight proportions: 60 to 80 percent silicon dioxide, 4 to 10 percent total R<sub>2</sub>O (e.g., Na<sub>2</sub>O and K<sub>2</sub>O), 5 to 35 percent boric oxides, and 0 to 13 percent other oxides.~~

~~*Container glass* means glass made of soda lime recipe, clear or colored, which is pressed and/or blown into bottles, jars, ampoules, and other products listed in Standard Industrial Classification 3221 (SIC 3221).~~

~~*Experimental furnace* means a glass melting furnace with the sole purpose of operating to evaluate glass melting processes, technologies, or glass products. An experimental furnace does not produce glass that is sold (except for further research and development purposes) or that is used as a raw material for nonexperimental furnaces.~~

~~*Flat glass* means glass made of soda lime recipe and produced into continuous flat sheets and other products listed in SIC 3211.~~

~~*Flow channels* means appendages used for conditioning and distributing molten glass to forming apparatuses and are a permanently separate source of emissions such that no mixing of emissions occurs with emissions from the melter cooling system prior to their being vented to the atmosphere.~~

~~*Glass melting furnace* means a unit comprising a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass. The unit includes foundations, superstructure and retaining walls, raw material charger systems, heat exchangers, melter cooling system, exhaust system, refractory brick work, fuel supply and electrical boosting equipment, integral control systems and instrumentation, and appendages for conditioning and distributing molten glass to forming apparatuses. The forming apparatuses, including the float bath used in flat glass manufacturing and flow channels in wool fiberglass and textile fiberglass manufacturing, are not considered part of the glass melting furnace.~~

~~*Glass produced* means the weight of the glass pulled from the glass melting furnace.~~

~~*Hand glass melting furnace* means a glass melting furnace where the molten glass is removed from the furnace by a glassworker using a blowpipe or a pontil.~~

~~*Lead recipe* means glass product composition of the following ranges of weight proportions: 50 to 60 percent silicon dioxide, 18 to 35 percent lead oxides, 5 to 20 percent total R<sub>2</sub>O (e.g., Na<sub>2</sub>O and K<sub>2</sub>O), 0 to 8 percent total R<sub>2</sub>O<sub>3</sub> (e.g., Al<sub>2</sub>O<sub>3</sub>), 0 to 15 percent total RO (e.g., CaO, MgO), other than lead oxide, and 5 to 10 percent other oxides.~~

~~*Pressed and blown glass* means glass which is pressed, blown, or both, including textile fiberglass, noncontinuous flat glass, noncontainer glass, and other products listed in SIC 3229. It is separated into:~~

~~(1) Glass of borosilicate recipe.~~

~~(2) Glass of soda lime and lead recipes.~~

~~(3) Glass of opal, fluoride, and other recipes.~~

~~Rebricking means cold replacement of damaged or worn refractory parts of the glass melting furnace. Rebricking includes replacement of the refractories comprising the bottom, sidewalls, or roof of the melting vessel; replacement of refractory work in the heat exchanger; replacement of refractory portions of the glass conditioning and distribution system.~~

~~Soda lime recipe means glass product composition of the following ranges of weight proportions: 60 to 75 percent silicon dioxide, 10 to 17 percent total  $R_2O$  (e.g.,  $Na_2O$  and  $K_2O$ ), 8 to 20 percent total RO but not to include any  $PbO$  (e.g.,  $CaO$ , and  $MgO$ ), 0 to 8 percent total  $R_2O_3$  (e.g.,  $Al_2O_3$ ), and 1 to 5 percent other oxides.~~

~~Textile fiberglass means fibrous glass in the form of continuous strands having uniform thickness.~~

~~With modified processes means using any technique designed to minimize emissions without the use of add-on pollution controls.~~

~~Wool fiberglass means fibrous glass of random texture, including fiberglass insulation, and other products listed in SIC 3296.~~

~~[45 FR 66751, Oct. 7, 1980, as amended at 49 FR 41035, Oct. 19, 1984; 65 FR 61759, Oct. 17, 2000]~~

~~§ 60.293—Standards for particulate matter from glass melting furnace with modified processes.~~

~~(a) An owner or operator of a glass melting furnaces with modified processes is not subject to the provisions of §60.292 if the affected facility complies with the provisions of this section.~~

~~(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator of a glass melting furnace with modified processes subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the affected facility:~~

~~(1) Particulate matter at emission rates exceeding 0.5 gram of particulate per kilogram of glass produced (g/kg) as measured according to paragraph (e) of this section for container glass, flat glass, and pressed and blown glass with a soda lime recipe melting furnaces.~~

~~(d)(1) After receipt and consideration of written application, the Administrator may approve alternative continuous monitoring systems for the measurement of one or more process or operating parameters that is or are demonstrated to enable accurate and representative monitoring of an emission limit specified in paragraph (b) of this section.~~

~~(2) After the Administrator approves an alternative continuous monitoring system for an affected facility, the requirements of paragraphs (c) (1) through (5) of this section will not apply for that affected facility.~~

~~(f) Test methods and procedures as specified in §60.296 shall be used to determine compliance with this section except that to determine compliance for any glass melting furnace using modified processes and fired with either a gaseous fuel or a liquid fuel containing less than 0.50 weight percent sulfur, Method 5 shall be used with the probe and filter holder heating system in the sampling train set to provide a gas temperature of  $120 \pm 14$  °C ( $248 \pm 25$  °F).~~

~~[49 FR 41036, Oct. 19, 1984, as amended at 64 FR 7466, Feb. 12, 1999; 65 FR 61759, Oct. 17, 2000]~~

~~§ 60.296—Test methods and procedures.~~

~~(a) If a glass melting furnace with modified processes is changed to one without modified processes or if a glass melting furnace without modified processes is changed to one with modified processes, the owner or operator shall notify the Administrator at least 60 days before the change is scheduled to occur.~~

~~(c) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).~~

~~(d) The owner or operator shall determine compliance with the particulate matter standards in §§60.292 and 60.293 as follows:~~

~~(1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:~~

$$E=(c_s Q_{sd}-A)/P$$

~~where:~~

~~E=emission rate of particulate matter, g/kg.~~

~~c<sub>s</sub>=concentration of particulate matter, g/dsm.~~

~~Q<sub>sd</sub>=volumetric flow rate, dscm/hr.~~

~~A=zero production rate correction~~

~~=227 g/hr for container glass, pressed and blown (soda-lime and lead) glass, and pressed and blown (other than borosilicate, soda-lime, and lead) glass.~~

~~=454 g/hr for pressed and blown (borosilicate) glass, wool fiberglass, and flat glass.~~

~~P=glass production rate, kg/hr.~~

~~(2) Method 5 shall be used to determine the particulate matter concentration (c<sub>s</sub>) and volumetric flow rate (Q<sub>sd</sub>) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). The probe and filter holder heating system may be set to provide a gas temperature no greater than 177 ±14 °C (350 ±25 °F), except under the conditions specified in §60.293(e).~~

~~(3) Direct measurement or material balance using good engineering practice shall be used to determine the amount of glass pulled during the performance test. The rate of glass produced is defined as the weight of glass pulled from the affected facility during the performance test divided by the number of hours taken to perform the performance test.~~

~~[54 FR 6674, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 65 FR 61759, Oct. 17, 2000]~~

~~D.1.14 NSPS Requirements [40 CFR Part 60, Subpart CC][326 IAC 12]~~

~~In accordance with 40 CFR 60.293(d), the Permittee shall comply with the alternative monitoring system requirements at condition D.1.8 approved by US EPA on July 8, 1987.~~

## SECTION E.1 SOURCE OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (a) one (1) natural gas or propane fired glass melting furnace, referred to as furnace #32, constructed in March 1987 and modified in 1998, with a maximum raw material input capacity of 22.2 tons per hour and a maximum heat input capacity of 84.7 million British Thermal Units per hour, producing 15.04 tons of glass per hour with emissions exhausting to the stack referred to as stack B. Opacity is measured by a certified continuous opacity monitor, identified as COM1. Under 40 CFR 60, Subpart CC, this is considered an affected glass melting furnace.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

**E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1]  
[40 CFR Part 60, Subpart A]**

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(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for furnace #32 except as otherwise specified in 40 CFR Part 60, Subpart CC.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue,  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

City of Anderson, Air Management Division  
P.O. Box 2100  
120 East 8th Street  
Anderson, IN 46018

**E.1.2 NSPS Requirements [40 CFR Part 60, Subpart CC][326 IAC 12]**

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Pursuant to 40 CFR Part 60, Subpart CC (Standards of Performance for Glass Manufacturing Plants), the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart CC, which are incorporated by reference as 326 IAC 12 (included as Attachment A of this permit) for glass melting furnace #32 as specified as follows:

- (1) 40 CFR 60.290(a)
- (2) 40 CFR 60.290(b)
- (3) 40 CFR 60.290(c)
- (4) 40 CFR 60.291
- (5) 40 CFR 60.293(a)
- (6) 40 CFR 60.293(b)
- (7) 40 CFR 60.293(b)(1)
- (8) 40 CFR 60.293(c)
- (9) 40 CFR 60.293(c)(1)
- (10) 40 CFR 60.293(c)(2)
- (11) 40 CFR 60.293(c)(3)
- (12) 40 CFR 60.293(c)(4)
- (13) 40 CFR 60.293(c)(5)
- (14) 40 CFR 60.293(e)
- (15) 40 CFR 60.293(e)(1)
- (16) 40 CFR 60.293(e)(2)
- (17) 40 CFR 60.293(e)(3)
- (18) 40 CFR 60.293(f)
- (19) 40 CFR 60.296(a)
- (20) 40 CFR 60.296(c)
- (21) 40 CFR 60.296(d)
- (22) 40 CFR 60.296(d)(1)
- (23) 40 CFR 60.296(d)(2)
- (24) 40 CFR 60.296(d)(3)
- (25) 40 CFR 60.296(d)(4)

**Change #14**

Several rule citations have been revised to correct errors and to reflect new applicability. The conditions effected are shown below:

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72]

...

B.21 Source Modification Requirement [326 IAC 2-7-10.5][326 IAC 2-2-2][326 IAC 2-3-2]

...

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

...

<b>Conclusion and Recommendation</b>
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The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 095-26089-00012. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.

## Indiana Department of Environmental Management Office of Air Quality

### Standards of Performance for Glass Manufacturing Plants 40 CFR Part 60, Subpart CC

#### § 60.290 Applicability and designation of affected facility.

- (a) Each glass melting furnace is an affected facility to which the provisions of this subpart apply.
- (b) Any facility under paragraph (a) of this section that commences construction or modification after June 15, 1979, is subject to the requirements of this subpart.
- (c) This subpart does not apply to hand glass melting furnaces, glass melting furnaces designed to produce less than 4.55 Mg (5 tons) of glass per day and all-electric melters.

[45 FR 66751, Oct. 7, 1980, as amended at 65 FR 61759, Oct. 17, 2000]

#### § 60.291 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part, unless otherwise required by the context.

**All-electric melter** means a glass melting furnace in which all the heat required for melting is provided by electric current from electrodes submerged in the molten glass, although some fossil fuel may be charged to the furnace as raw material only.

**Borosilicate recipe** means glass product composition of the following approximate ranges of weight proportions: 60 to 80 percent silicon dioxide, 4 to 10 percent total R<sub>2</sub>O (e.g., Na<sub>2</sub>O and K<sub>2</sub>O), 5 to 35 percent boric oxides, and 0 to 13 percent other oxides.

**Container glass** means glass made of soda-lime recipe, clear or colored, which is pressed and/or blown into bottles, jars, ampoules, and other products listed in Standard Industrial Classification 3221 (SIC 3221).

**Experimental furnace** means a glass melting furnace with the sole purpose of operating to evaluate glass melting processes, technologies, or glass products. An experimental furnace does not produce glass that is sold (except for further research and development purposes) or that is used as a raw material for nonexperimental furnaces.

**Flat glass** means glass made of soda-lime recipe and produced into continuous flat sheets and other products listed in SIC 3211.

**Flow channels** means appendages used for conditioning and distributing molten glass to forming apparatuses and are a permanently separate source of emissions such that no mixing of emissions occurs with emissions from the melter cooling system prior to their being vented to the atmosphere.

**Glass melting furnace** means a unit comprising a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass. The unit includes foundations, superstructure and retaining walls, raw material charger systems, heat exchangers, melter cooling system, exhaust system, refractory brick work, fuel supply and electrical boosting equipment, integral control systems and instrumentation, and appendages for conditioning and distributing molten glass to forming apparatuses. The forming apparatuses, including the float bath used in flat glass manufacturing and flow channels in wool fiberglass and textile fiberglass manufacturing, are not considered part of the glass melting furnace.

**Glass produced** means the weight of the glass pulled from the glass melting furnace.

**Hand glass melting furnace** means a glass melting furnace where the molten glass is removed from the furnace by a glassworker using a blowpipe or a pontil.

**Lead recipe** means glass product composition of the following ranges of weight proportions: 50 to 60 percent silicon dioxide, 18 to 35 percent lead oxides, 5 to 20 percent total  $R_2O$  (e.g.,  $Na_2O$  and  $K_2O$ ), 0 to 8 percent total  $R_2O_3$  (e.g.,  $Al_2O_3$ ), 0 to 15 percent total RO (e.g.,  $CaO$ ,  $MgO$ ), other than lead oxide, and 5 to 10 percent other oxides.

**Pressed and blown glass** means glass which is pressed, blown, or both, including textile fiberglass, noncontinuous flat glass, noncontainer glass, and other products listed in SIC 3229. It is separated into:

- (1) Glass of borosilicate recipe.
- (2) Glass of soda-lime and lead recipes.
- (3) Glass of opal, fluoride, and other recipes.

**Rebricking** means cold replacement of damaged or worn refractory parts of the glass melting furnace. Rebricking includes replacement of the refractories comprising the bottom, sidewalls, or roof of the melting vessel; replacement of refractory work in the heat exchanger; replacement of refractory portions of the glass conditioning and distribution system.

**Soda-lime recipe** means glass product composition of the following ranges of weight proportions: 60 to 75 percent silicon dioxide, 10 to 17 percent total  $R_2O$  (e.g.,  $Na_2O$  and  $K_2O$ ), 8 to 20 percent total RO but not to include any  $PbO$  (e.g.,  $CaO$ , and  $MgO$ ), 0 to 8 percent total  $R_2O_3$  (e.g.,  $Al_2O_3$ ), and 1 to 5 percent other oxides.

**Textile fiberglass** means fibrous glass in the form of continuous strands having uniform thickness.

**With modified-processes** means using any technique designed to minimize emissions without the use of add-on pollution controls.

**Wool fiberglass** means fibrous glass of random texture, including fiberglass insulation, and other products listed in SIC 3296.

[45 FR 66751, Oct. 7, 1980, as amended at 49 FR 41035, Oct. 19, 1984; 65 FR 61759, Oct. 17, 2000]

#### § 60.292 Standards for particulate matter.

- (a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator of a glass melting furnace subject to the provisions of this subpart shall cause to be discharged into the atmosphere—
  - (1) From any glass melting furnace fired exclusively with either a gaseous fuel or a liquid fuel, particulate matter at emission rates exceeding those specified in Table CC-1, Column 2 and Column 3, respectively, or
  - (2) From any glass melting furnace, fired simultaneously with gaseous and liquid fuels, particulate matter at emission rates exceeding STD as specified by the following equation:

$$STD=X [1.3(Y)+(Z)]$$

Where:

- STD = Particulate matter emission limit, g of particulate/kg (lb of particulate/ton) of glass produced.
- X = Emission rate specified in Table CC-1 for furnaces fired with gaseous fuel (Column 2).
- Y = Decimal fraction of liquid fuel heating value to total (gaseous and liquid) fuel heating value fired in the glass melting furnaces as determined in §60.296(b). (joules/joules).
- Z = (1-Y).

- (b) Conversion of a glass melting furnace to the use of liquid fuel is not considered a modification for the purposes of §60.14.
- (c) Rebricking and the cost of rebricking is not considered a reconstruction for the purposes of §60.15.
- (d) An owner or operator of an experimental furnace is not subject to the requirements of this section.
- (e) During routine maintenance of add-on pollution controls, an owner or operator of a glass melting furnace subject to the provisions of paragraph (a) of this section is exempt from the provisions of paragraph (a) of this section if:
  - (1) Routine maintenance in each calendar year does not exceed 6 days;
  - (2) Routine maintenance is conducted in a manner consistent with good air pollution control practices for minimizing emissions; and
  - (3) A report is submitted to the Administrator 10 days before the start of the routine maintenance (if 10 days cannot be provided, the report must be submitted as soon as practicable) and the report contains an explanation of the schedule of the maintenance.

**Table CC-1— Emission Rates  
 [g of particulate/kg of glass produced]**

<b>Col. 1—Glass manufacturing plant industry segment</b>	<b>Col. 2—Furnace fired with gaseous fuel</b>	<b>Col. 3—Furnace fired with liquid fuel</b>
Container glass	0.1	0.13
Pressed and blown glass		
(a) Borosilicate Recipes	0.5	0.65
(b) Soda-Lime and Lead Recipes	0.1	0.13
(c) Other-Than Borosilicate, Soda-Lime, and Lead Recipes (including opal, fluoride, and other recipes)	0.25	0.325
Wool fiberglass	0.25	0.325
Flat glass	0.225	0.225

[45 FR 66751, Oct. 7, 1980, as amended at 49 FR 41035, Oct. 19, 1984; 54 FR 6674, Feb. 14, 1989; 65 FR 61759, Oct. 17, 2000]

**§ 60.293 Standards for particulate matter from glass melting furnace with modified-processes.**

- (a) An owner or operator of a glass melting furnaces with modified-processes is not subject to the provisions of §60.292 if the affected facility complies with the provisions of this section.

- (b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator of a glass melting furnace with modified-processes subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the affected facility:
- (1) Particulate matter at emission rates exceeding 0.5 gram of particulate per kilogram of glass produced (g/kg) as measured according to paragraph (e) of this section for container glass, flat glass, and pressed and blown glass with a soda-lime recipe melting furnaces.
  - (2) Particulate matter at emission rates exceeding 1.0 g/kg as measured according to paragraph (e) of this section for pressed and blown glass with a borosilicate recipe melting furnace.
  - (3) Particulate matter at emission rates exceeding 0.5 g/kg as measured according to paragraph (e) of this section for textile fiberglass and wool fiberglass melting furnaces.
- (c) The owner or operator of an affected facility that is subject to emission limits specified under paragraph (b) of this section shall:
- (1) Install, calibrate, maintain, and operate a continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the affected facility.
  - (2) During the performance test required to be conducted by §60.8, conduct continuous opacity monitoring during each test run.
  - (3) Calculate 6-minute opacity averages from 24 or more data points equally spaced over each 6-minute period during the test runs.
  - (4) Determine, based on the 6-minute opacity averages, the opacity value corresponding to the 99 percent upper confidence level of a normal distribution of average opacity values.
  - (5) For the purposes of §60.7, report to the Administrator as excess emissions all of the 6-minute periods during which the average opacity, as measured by the continuous monitoring system installed under paragraph (c)(1) of this section, exceeds the opacity value corresponding to the 99 percent upper confidence level determined under paragraph (c)(4) of this section.
- (d)
- (1) After receipt and consideration of written application, the Administrator may approve alternative continuous monitoring systems for the measurement of one or more process or operating parameters that is or are demonstrated to enable accurate and representative monitoring of an emission limit specified in paragraph (b) of this section.
  - (2) After the Administrator approves an alternative continuous monitoring system for an affected facility, the requirements of paragraphs (c) (1) through (5) of this section will not apply for that affected facility.
- (e) An owner or operator may redetermine the opacity value corresponding to the 99 percent upper confidence level as described in paragraph (c)(4) of this section if the owner or operator:
- (1) Conducts continuous opacity monitoring during each test run of a performance test that demonstrates compliance with an emission limit of paragraph (b) of this section,

- (2) Recalculates the 6-minute opacity averages as described in paragraph (c)(3) of this section, and
  - (3) Uses the redetermined opacity value corresponding to the 99 percent upper confidence level for the purposes of paragraph (c)(5) of this section.
- (f) Test methods and procedures as specified in §60.296 shall be used to determine compliance with this section except that to determine compliance for any glass melting furnace using modified processes and fired with either a gaseous fuel or a liquid fuel containing less than 0.50 weight percent sulfur, Method 5 shall be used with the probe and filter holder heating system in the sampling train set to provide a gas temperature of  $120 \pm 14$  °C ( $248 \pm 25$  °F).

[49 FR 41036, Oct. 19, 1984, as amended at 64 FR 7466, Feb. 12, 1999; 65 FR 61759, Oct. 17, 2000]

**§§ 60.294-60.295 [Reserved]**

**§ 60.296 Test methods and procedures.**

- (a) If a glass melting furnace with modified processes is changed to one without modified processes or if a glass melting furnace without modified processes is changed to one with modified processes, the owner or operator shall notify the Administrator at least 60 days before the change is scheduled to occur.
- (b) When gaseous and liquid fuels are fired simultaneously in a glass melting furnace, the owner or operator shall determine the applicable standard under §60.292(a)(2) as follows:
  - (1) The ratio (Y) of liquid fuel heating value to total (gaseous and liquid) fuel heating value fired in the glass melting furnaces shall be computed for each run using the following equation:  
$$Y = (H_l L) / (H_l L + H_g G)$$

where:

    - Y = decimal fraction of liquid fuel heating value to total fuel heating value.
    - H<sub>l</sub> = gross calorific value of liquid fuel, J/kg.
    - H<sub>g</sub> = gross calorific value of gaseous fuel, J/kg.
    - L = liquid flow rate, kg/hr.
    - G = gaseous flow rate, kg/hr.
  - (2) Suitable methods shall be used to determine the rates (L and G) of fuels burned during each test period and a material balance over the glass melting furnace shall be used to confirm the rates.
  - (3) ASTM Method D240–76 or 92 (liquid fuels) and D1826–77 or 94 (gaseous fuels) (incorporated by reference—see §60.17), as applicable, shall be used to determine the gross calorific values.
- (c) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).
- (d) The owner or operator shall determine compliance with the particulate matter standards in §§60.292 and 60.293 as follows:
  - (1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (c_s Q_{sd} - A) / P$$

where:

- E = emission rate of particulate matter, g/kg.  
c<sub>s</sub> = concentration of particulate matter, g/dsm.  
Q<sub>sd</sub> = volumetric flow rate, dscm/hr.  
A = zero production rate correction  
= 227 g/hr for container glass, pressed and blown (soda-lime and lead) glass, and pressed and blown (other than borosilicate, soda-lime, and lead) glass.  
= 454 g/hr for pressed and blown (borosilicate) glass, wool fiberglass, and flat glass.  
P = glass production rate, kg/hr.

- (2) Method 5 shall be used to determine the particulate matter concentration (c<sub>s</sub>) and volumetric flow rate (Q<sub>sd</sub>) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). The probe and filter holder heating system may be set to provide a gas temperature no greater than 177 ±14 °C (350 ±25 °F), except under the conditions specified in §60.293(e).
- (3) Direct measurement or material balance using good engineering practice shall be used to determine the amount of glass pulled during the performance test. The rate of glass produced is defined as the weight of glass pulled from the affected facility during the performance test divided by the number of hours taken to perform the performance test.
- (4) Method 9 and the procedures in §60.11 shall be used to determine opacity.

[54 FR 6674, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 65 FR 61759, Oct. 17, 2000]