



Indiana Department of Environmental Management

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NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a Significant Modification to a
Part 70 Operating Permit

for the Ardagh Glass Inc in Randolph County

Significant Source Modification No.: 135-36668-00012

Significant Permit Modification No.: 135-36746-00012

The Indiana Department of Environmental Management (IDEM) has received an application from Ardagh Glass Inc, located at 603 East North Street, Winchester, Indiana 47394, for a significant modification of its Part 70 Operating Permit issued on January 14, 2016. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow Ardagh Glass Inc to make certain changes at its existing source. Ardagh Glass has applied to add a new abrasive blaster.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g. changes that add or modify synthetic minor emission limits). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Winchester Community Public Library
125 North East Street
Winchester, IN 47394

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you

do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SSM 135-36668-00012 and SPM 135-36746-00012 in all correspondence.

Comments should be sent to:

Amal Agharkar
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 2-8422
Or dial directly: (317) 232-8422
Fax: (317) 232-6749 attn: Amal Agharkar
E-mail: aagharka@idem.IN.gov

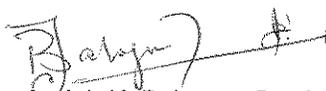
All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Amal Agharkar of my staff at the above address.



Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality



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Mr. Gary Jarrett
Ardagh Glass Inc.
603 East North Street
Winchester, IN, 47394

Re: 135-36668-00012
Significant Source Modification

Dear Mr. Jarrett

Ardagh Glass Inc was issued Part 70 Operating Permit Renewal No. T135-33915-00012 on January 14, 2016 for a stationary glass container manufacturing plant located at 603 East North Street, Winchester, IN. An application to modify the source was received on December 28, 2015. Pursuant to the provisions of 326 IAC 2-7-10.5, a Significant Source Modification is hereby approved as described in the attached Technical Support Document.

Pursuant to 326 IAC 2-7-10.5, the following emission unit is approved for construction at the source:

- (a) One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor .

The following construction conditions are applicable to the proposed modification:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

3. Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

Commenced Construction

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(j), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

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Approval to Construct

6. Pursuant to 326 IAC 2-7-10.5(h)(2), this Significant Source Modification authorizes the construction of the new emission unit(s), when the Significant Source Modification has been issued.

Pursuant to 326 IAC 2-7-10.5(m), the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

Pursuant to 326 IAC 2-7-12, operation of the new emission unit(s) is not approved until the Significant Permit Modification has been issued. Operating conditions shall be incorporated into the Part 70 Operating Permit as a Significant Permit Modification in accordance with 326 IAC 2-7-10.5(m)(2) and 326 IAC 2-7-12 (Permit Modification).

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

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 Amal Agharkar of my staff, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Amal Agharkar or extension 2-8422 or dial (317) 232-8422.

Sincerely,

Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

Attachments: Significant Source Modification and Technical Support Document

cc: File - Randolph County
Randolph County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



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Significant Source Modification to a Part 70 Source

OFFICE OF AIR QUALITY

**Ardagh Glass Inc.
603 East North Street
Winchester, Indiana 47394**

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

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. This permit also addresses certain new source review requirements for new and/or existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Significant Source Modification No.: 135-36668-00012	
Issued by: Josiah K. Balogun Section Chief, Permits Branch Office of Air Quality	Issuance Date:

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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). 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(14)][326 IAC 2-7-1(22)]

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

Source Address:	603 East North Street, Winchester, Indiana 47394
General Source Phone Number:	(765) 584-6101
SIC Code:	3221 (Glass Containers)
County Location:	Randolph
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(14)]

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

- (a) One (1) natural gas-fired glass furnace, identified as Furnace #1, constructed in 1971 and approved in 2015 for cold repair, with a maximum design melt capacity of 344 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST7.
- (b) One (1) natural gas-fired glass furnace, identified as Furnace #2, constructed in 1973 and approved in 2014 for cold repair, with a maximum design melt capacity of 448 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST8.
- (c) One (1) mold swabbing operation, consisting of three (3) individual treatment locations (identified as Shop #11, Shop #12, and Shop #13), servicing Furnace #1.
- (d) One (1) mold swabbing operation, consisting of three (3) individual treatment locations (identified as Shop #21, Shop #22, and Shop #23), servicing Furnace #2.
- (e) One (1) hot end treatment operation, using tin trichloride, consisting of three (3) individual treatment locations (identified as Shop #11, Shop #12, and Shop #13), servicing Furnace #1, with emissions controlled by fume hoods exhausting inside the building.
- (f) One (1) hot end treatment operation, using tin trichloride, consisting of three (3) individual treatment locations (identified as Shop #21, Shop #22, and Shop #23), servicing Furnace #2, with emissions controlled by fume hoods exhausting inside the building.
- (g) One (1) raw materials batch storage and conveyance process, constructed in 1929, with a maximum capacity of 1,200 tons per day, with emissions uncontrolled and exhausting inside the building.

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- (h) One (1) raw materials batch mixing process, constructed in 1929, with a maximum capacity of 1,200 tons per day, with emissions controlled by baghouse BH1, which exhausts to stack ST9, and by baghouse BH2, which exhausts inside the building.
- (i) One (1) glass furnace day bin, servicing Furnace #1, constructed in 1940, with a maximum capacity of 550 tons per day, controlled by baghouse BH3, with emissions exhausting to stack ST5.
- (j) One (1) glass furnace day bin, servicing Furnace #2, constructed in 1991, with a maximum capacity of 650 tons per day, controlled by baghouse BH4, with emissions exhausting to stack ST6.
- (k) Cullet crushing operations, with a maximum throughput of 50,000 tons of cullet per year, exhausting inside the building.
- (l) One (1) dip/soak cold cleaner degreaser, identified as Machine Repair #1, constructed after 1980 and before 1990, with a fill capacity of six hundred sixty (660) gallons, using non-HAP cleaners.
- (m) One (1) agitation cold cleaner degreaser, identified as Machine Repair #2, constructed after 1980 and before 1990, with a fill capacity of eighty (80) gallons, using non-HAP cleaners.
- (n) One (1) agitation cold cleaner degreaser, identified as Machine Repair #3, constructed after 1980 and before 1990, with a fill capacity of eighty (80) gallons, using non-HAP cleaners.
- (o) One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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

- (a) Insignificant cold cleaner degreasing operations, consisting of four (4) cold cleaners, each constructed after 1980 and before 1990, each using non-HAP solvent, and each with potential solvent use less than one hundred forty-five (145) gallons per year. [326 IAC 8-3-2] [326 IAC 8-3-8]
- (b) One (1) cardboard baler with a throughput of less than two thousand (2,000) tons per year. [326 IAC 6-3-2]
- (c) One (1) four-stroke diesel-fired emergency fire pump engine, identified as FP1, constructed in 1992, with a maximum capacity of 216 hp (161 kW).

Under 40 CFR 63, Subpart ZZZZ, this unit is considered an existing stationary CI RICE.
- (d) Gasoline dispensing operation handling less than one thousand three hundred (1,300) gallons per day, with a filling tank storage capacity less than or equal to ten thousand five hundred (10,500) gallons.

[Under 40 CFR 63, Subpart CCCCC, this unit is considered an existing affected source].

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- (e) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to three onehundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4,000) actual cubic feet per minute.

These include the following mold shop operations:

- (1) One (1) abrasive blasting unit, identified as AB2, with one (1) nozzle and a maximum capacity of two hundred fifty (250) pounds of glass bead abrasive material per hour, equipped with a cyclonic dust collector, and constructed prior to 1968. [326 IAC 6-3-2]
- (f) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.4 Insignificant Activities as Defined in 326 IAC 2-7-1(21) [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

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

- (a) Six (6) cold end bottle coaters.
 - (1) One (1) internal bottle treatment operation, consisting of three (3) individual treatment locations (identified as Shop #11, Shop #12, and Shop #13), servicing Furnace #1.
 - (2) One (1) internal bottle treatment operation, consisting of three (3) individual treatment locations (identified as Shop #21, Shop #22, and Shop #23), servicing Furnace #2.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten (10) MMBtu/hour.
 - (1) Annealing lehrs - three (3) natural gas-fired annealing lehrs, associated with Shop #21, Shop #22, and Shop #23, having a total heat input capacity of 7.9 MMBtu/hour.
 - (2) Annealing lehrs - three (3) natural gas-fired annealing lehrs, associated with Shop #11, Shop #12, and Shop #13, having a total heat input capacity of 5.014 MMBtu/hour.
 - (3) Four (4) natural gas-fired mold heating ovens with a total heat input capacity of less than ten (10) MMBtu/hour.
 - (4) One (1) natural gas-fired belt heater with a heat input capacity of three (3) MMBtu
 - (5) Natural gas-fired space heaters with heat input capacity equal to or less than ten (10) MMBtu/hour (total maximum heat input capacity of 63.3 MMBtu/hour).
- (c) Video jet printers, used to apply codes to finished product.
- (d) Petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.

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- (e) Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs equal to or less than twelve thousand (12,000) gallons.
- (f) Vessels storing lubricating oils, hydraulic oils, and machine oils.
- (g) Brazing equipment, cutting torches, soldering equipment, and welding equipment related to manufacturing activities and not resulting in the emission of HAPs.
- (h) Forced or induced draft noncontact cooling tower system not regulated under a NESHAP.
- (i) Asbestos abatement projects regulated by 326 IAC 14-10.
- (j) Operations using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs.
- (k) Carton glues or other water based adhesives containing less than five percent (5%) by volume of VOCs excluding HAPs.
- (l) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to one percent (1%) by volume.
- (m) Filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases.
- (n) Refractory storage not requiring air pollution control equipment.
- (o) Equipment used to collect materials that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (p) Closed loop heating and cooling equipment.
- (q) Blowdown from any of the following: sight glass, boiler, compressors, pumps, or cooling tower.
- (r) Heat exchanger cleaning and repair.
- (s) Replacement or repair of bags in baghouses and of filters in other air filtration equipment.
- (t) A laboratory as defined in 326 IAC 2-7-1(21)(G).

A.5 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).

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SECTION B GENERAL CONDITIONS

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

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)]

- (a) This permit, T135-33915-00012, 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, 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]

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][IC 13-17-12]

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, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

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

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)]

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)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ 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. Upon request, the Permittee shall also furnish to IDEM, OAQ 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)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

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- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(35), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) A "responsible official" is defined at 326 IAC 2-7-1(35).

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

- (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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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 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 may require to determine the compliance status of the source.

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The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ 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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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- (d) 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]

- (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 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

- (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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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.

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The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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 may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ 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.

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 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.

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- (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, 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, 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 T135-33915-00012 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 permit, all previous registrations and permits are superseded by this 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 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]

- (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-

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5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ 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 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 at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ 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(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

Request for renewal shall be submitted to:

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

- (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 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 takes final action on the renewal application, except that this protection shall cease to apply if,

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subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

(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.18 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 or notice 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.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) 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:

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

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)(1) and (c)(1). 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 in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).

- (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(37)) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at 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 [326 IAC 2-7-20(d)]
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.

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- (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.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 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, 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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)]

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B.23 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ 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 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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

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.

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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 5-1-1 (Applicability) and 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 except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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 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:

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- (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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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 that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

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

C.7 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ 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.8 Compliance Requirements [326 IAC 2-1.1-11]

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

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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.

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The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.10 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

- (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. The analog instrument shall be capable of measuring values outside of the normal range.
- (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.11 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ 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.12 Risk Management Plan [326 IAC 2-7-5(11)][40 CFR 68]

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.13 Response to Excursions or Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.

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- (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; and/or
 - (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 record the reasonable response steps taken.

C.14 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 submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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

C.15 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]
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(33) ("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

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The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6][326 IAC 2-2][326 IAC 2-3]

(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. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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 makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

(c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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;

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- (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(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 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), 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.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)][326 IAC 2-1.1-11][326 IAC 2-2][326 IAC 2-3]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

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

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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 on or before the date it is due.

- (d) 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.
- (e) 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 (oo) and/or 326 IAC 2-3-1 (jj)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (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 (ww) and/or 326 IAC 2-3-1 (pp), 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).
- (f) The report for project at an existing emissions unit shall be submitted no later than 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 wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

- (g) 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. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

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 applicable standards for recycling and emissions reduction.

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SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired glass furnace, identified as Furnace #1, constructed in 1971 and approved in 2015 for cold repair, with a maximum design melt capacity of 344 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST7.
- (b) One (1) natural gas-fired glass furnace, identified as Furnace #2, constructed in 1973 and approved in 2014 for cold repair, with a maximum design melt capacity of 448 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST8.
- (c) One (1) glass furnace day bin, servicing Furnace #1, constructed in 1940, with a maximum capacity of 550 tons per day, controlled by baghouse BH3, with emissions exhausting to stack ST5.
- (d) One (1) glass furnace day bin, servicing Furnace #2, constructed in 1991, with a maximum capacity of 650 tons per day, controlled by baghouse BH4, with emissions exhausting to stack ST6.

(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 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

The pull rate of Furnace #2 shall be limited to no greater than 142,350 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Additionally, the following emissions limits apply to Furnace #2:

- (a) Particulate matter (PM) emissions shall not exceed 19.06 pounds per hour;
- (b) Sulfur dioxide (SO₂) emissions shall not exceed 83.6 pounds per hour; and
- (c) Nitrogen oxides (NO_x) emissions shall not exceed 116.6 pounds per hour.

Compliance with these limits will ensure the net significant PM, SO₂, and NO_x emissions from the emission unit, identified as Furnace #2 are less than 25, 40 and 40 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 1991 modification.

D.1.2 Particulate Emissions Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes), the following limits apply to the source:

- (a) The allowable particulate emissions from Furnace #1 shall not exceed 24.40 pounds per hour when operating at the maximum design melt capacity of 14.33 tons per hour.
- (b) The allowable particulate emissions from Furnace #2 shall not exceed 29.13 tons per hour when operating at the maximum design capacity of 18.67 tons per hour.
- (c) The allowable particulate emissions from the Furnace #1 Day Bin shall not exceed 33.43

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pounds per hour when operating at the maximum capacity of 22.92 tons per hour.

- (d) The allowable particulate emissions from the Furnace #2 Day Bin shall not exceed 37.38 pounds per hour when operating at the maximum capacity of 27.08 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:

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

D.1.3 Preventive Maintenance Plans [326 IAC 1-6-3][326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for Furnaces #1 and #2. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

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

D.1.4 Visible Emission Notations[326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

- (a) Visible emission notations of each furnace stack exhaust, and each day bin stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. 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. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

D.1.5 Record Keeping Requirements[326 IAC 2-7-5(3)][326 IAC 2-7-19]

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain monthly records of the pull rate of Furnace #2.
- (b) To document the compliance status with Condition D.1.4 - Visible Emission Notation, the Permittee shall maintain daily records of the visible emission notations of each furnace stack exhaust, each day bin stack exhaust. The Permittee shall include in its daily record when a visible notation is not taken and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).

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- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.6 Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

A quarterly summary of the information to document the compliance status with Condition D.1.1(a) shall be submitted, not later than thirty (30) after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

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SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) raw materials batch storage and conveyance process, constructed in 1929, with a maximum capacity of 1,200 tons per day, with emissions uncontrolled and exhausting inside the building.
- (b) One (1) raw materials batch mixing process, constructed in 1929, with a maximum capacity of 1,200 tons per day, with emissions controlled by baghouse BH1, which exhausts to stack ST9, and by baghouse BH2, which exhausts inside the building.
- (c) One (1) mold swabbing operation, consisting of three (3) individual treatment locations (identified as Shop #11, Shop #12, and Shop #13), servicing Furnace #1, with the maximum capacity limited by the capacity of Furnace #1.
- (d) One (1) mold swabbing operation, consisting of three (3) individual treatment locations (identified as Shop #21, Shop #22, and Shop #23), servicing Furnace #2, with the maximum capacity limited by the capacity of Furnace #2.
- (e) One (1) hot end treatment operation, using tin trichloride, consisting of three (3) individual treatment locations (identified as Shop #11, Shop #12, and Shop #13), servicing Furnace #1, with emissions controlled by fume hoods exhausting inside the building.
- (f) One (1) hot end treatment operation, using tin trichloride, consisting of three (3) individual treatment locations (identified as Shop #21, Shop #22, and Shop #23), servicing Furnace #2, with emissions controlled by fume hoods exhausting inside the building.
- (g) Cullet crushing operations, with a maximum throughput of 50,000 tons of cullet per year, exhausting inside the building.

Insignificant Activities:

- (h) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to three onehundredths (0.03) grains per actual cubic foot and a gas flow rate less than or equal to four thousand (4,000) actual cubic feet per minute.

These include the following mold shop operations:

- (1) One (1) abrasive blasting unit, identified as AB2, with one (1) nozzle and a maximum capacity of two hundred fifty (250) pounds of glass bead abrasive material per hour, equipped with a cyclonic dust collector, and constructed prior to 1968. [326 IAC 6-3-2]
- (i) One (1) cardboard baler with a throughput of less than two thousand (2,000) tons per year. [326 IAC 6-3-2]

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

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

D.2.1 Particulate Emissions Limitations for Manufacturing Processes [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes), the following limits apply to the source:

- (1) The allowable particulate emissions from the batch storage and conveyance processes shall not exceed 44.58 pounds per hour when operating at the maximum capacity of 50 tons per hour.
- (2) The allowable particulate emissions from the batch mixing process shall not exceed 44.58 pounds per hour when operating at the maximum capacity of 50 tons per hour.

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

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (3) The allowable particulate emissions from mold swabbing shops #11, #12, and #13, servicing Furnace #1, shall not exceed 24.40 pounds per hour when operating at the maximum capacity of 14.33 tons of glass (as glass bottles) per hour.
- (4) The allowable particulate emissions from mold swabbing shops #21, #22, and #23, servicing Furnace #2, shall not exceed 29.13 pounds per hour when operating at the maximum design capacity of 18.67 tons per hour.
- (5) The allowable particulate emissions from hot end treatment shops #11, #12, and #13, servicing Furnace #1, shall not exceed 24.40 pounds per hour when operating at the maximum capacity of 14.33 tons of glass (as glass bottles) per hour.
- (6) The allowable particulate emissions from hot end treatment shops #21, #22, and #23, servicing Furnace #2, shall not exceed 29.13 pounds per hour when operating at the maximum design capacity of 18.67 tons per hour.
- (7) The allowable particulate emissions from the cullet crushing operation shall not exceed 13.17 pounds per hour when operating at the maximum capacity of 5.71 tons per hour.
- (8) The allowable particulate emissions from the mold shop operations shall not exceed 5.31 pounds per hour when operating at the maximum capacity of 1.47 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:

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

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- (b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions from the cardboard baler shall not exceed 0.551 pounds per hour when operating at the maximum capacity of less than 100 pounds per hour.

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SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) dip/soak cold cleaner degreaser, identified as Machine Repair #1, constructed after 1980 and before 1990, with a fill capacity of six hundred sixty (660) gallons, using non-HAP cleaners.
- (b) One (1) agitation cold cleaner degreaser, identified as Machine Repair #2, constructed after 1980 and before 1990, with a fill capacity of eighty (80) gallons, using non-HAP cleaners.
- (c) One (1) agitation cold cleaner degreaser, identified as Machine Repair #3, constructed after 1980 and before 1990, with a fill capacity of eighty (80) gallons, using non-HAP cleaners.

Insignificant Activities:

- (d) Insignificant cold cleaner degreasing operations, consisting of four (4) cold cleaners, each constructed after 1980 and before 1990, each using non-HAP solvent, and each with potential solvent use less than one hundred forty-five (145) gallons per year. [326 IAC 8-3-2][326 IAC 8-3-8]

(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.3.1 Volatile Organic Compounds [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-1(a)(2), the seven (7) cold cleaners are subject to the following requirements:

- (a) The owner or operator of a cold cleaning facility shall:
 - (1) equip the cleaner with a cover;
 - (2) equip the cleaner with a facility for draining cleaned parts;
 - (3) close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) provide a permanent, conspicuous label summarizing the operating requirements;
 - (6) 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 percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.3.3 Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

- (a) Pursuant to 326 8-3-8(c)(2), the following records shall be maintained for each purchase of cold cleaner degreaser solvent:
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
 - (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) All records required by 326 IAC 8-3-8(c)(2) shall be:
 - (1) retained on-site or accessible electronically for the most recent three (3) year period; and
 - (2) reasonably accessible for an additional two (2) year period.
- (c) Section C – General Record Keeping Requirements contains the Permittee’s obligations with regard to the record keeping required by this condition.

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SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (o) One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor.

(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.4.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following limits:

- (a) The PM emissions from the abrasive blaster, identified as Abrasive Blaster shall not exceed 5.7 pounds per hour;
- (b) The PM₁₀ emissions from the abrasive blaster, identified as Abrasive Blaster shall not exceed 3.4 pounds per hour; and
- (c) The PM_{2.5} emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 2.28 pounds per hour.

Compliance with the limits above will limit PM, PM₁₀, and PM_{2.5} emissions from the emission unit, identified as Abrasive Blaster to less than 25, 15 and 10 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2016 modification.

D.4.2 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable particulate matter (PM) from the Abrasive Blaster shall not exceed 2.96 pounds per hour when operating at a process weight rate of 1229 pounds 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:

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

Where:

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

D.4.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

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Compliance Determination Requirements [326 IAC 2-7-6(1)]

D.4.4 Particulate Matter Control [326 IAC 2-7-6(1)]

In order to comply with Condition D.4.1, the dust collector for particulate control shall be in operation and control particulate emissions from the emission unit at all times when the Abrasive Blaster is in operation.

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

D.4.5 Visible Emission Notations [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

- (a) Visible emission notations of Abrasive Blaster dust collector exhaust shall be performed once per day during normal daylight. 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. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

D.4.6 Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

- (a) To document the compliance status with Condition D.4.5 - Visible Emission Notation, the Permittee shall maintain daily records of the visible emission notations of Abrasive Blaster dust collector exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) four-stroke diesel-fired emergency fire pump engine, identified as FP1, constructed in 1992, with a maximum capacity of 216 hp (161 kW).

[Under 40 CFR 63, Subpart ZZZZ, this unit is considered an existing stationary CI RICE].

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements
[326 IAC 2-7-5(1)]**

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

E.1.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment A to this permit), which are incorporated by reference as 326 IAC 20-82, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585 (a), (c), (d)
- (3) 40 CFR 63.6590 (a)(1)(iii), (a)(1)(iv)
- (4) 40 CFR 63.6595 (a)(1), (b), (c)
- (5) 40 CFR 63.6603 (a)
- (6) 40 CFR 63.6604 (b)
- (7) 40 CFR 63.6605
- (8) 40 CFR 63.6625 (e)(3), (f), (h), (i)
- (9) 40 CFR 63.6635
- (10) 40 CFR 63.6640 (a), (b), (e), (f)
- (11) 40 CFR 63.6645 (a)(5)
- (12) 40 CFR 63.6650 (a)

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- (13) 40 CFR 63.6655 (a), (d), (e), (e)(2), (e)(3), (f), (f)(2)
- (14) 40 CFR 63.6660
- (15) 40 CFR 63.6665
- (16) 40 CFR 63.6670
- (17) 40 CFR 63.6675
- (18) Table 2d (item 4)
- (19) Table 6 (item 9)
- (20) Table 8

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SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Gasoline dispensing operation handling less than one thousand three hundred (1,300) gallons per day, with a filling tank storage capacity less than or equal to ten thousand five hundred (10,500) gallons.

[Under 40 CFR 63, Subpart CCCCCC, this unit is considered an existing affected source].

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements
[326 IAC 2-7-5(1)]**

E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 20-1][40 CFR 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1, except as otherwise specified in 40 CFR 63, Subpart CCCCCC.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

**E.2.2 National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Source Category:
Gasoline Dispensing Facilities [40 CFR Part 63, Subpart CCCCCC]**

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart CCCCCC (included as Attachment B of this permit), except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC:

- (1) 40 CFR 63.11110
- (2) 40 CFR 63.11111 (a), (b), (e), (f), (h), (i), (j)
- (3) 40 CFR 63.11112 (a), (d)
- (4) 40 CFR 63.11113 (b), (c)
- (5) 40 CFR 63.11115
- (6) 40 CFR 63.11116
- (7) 40 CFR 63.11125 (d)
- (8) 40 CFR 63.11130
- (9) 40 CFR 63.11131
- (10) 40 CFR 63.11132
- (11) Table 3

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Ardagh Glass Inc.
Source Address: 603 East North Street, Winchester, Indiana 47394
Part 70 Permit No.: T135-33915-00012

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:

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Ardagh Glass Inc.
Source Address: 603 East North Street, Winchester, Indiana 47394
Part 70 Permit No.: T135-33915-00012

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime 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:

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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 ₂ , VOC, NO _x , 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: _____

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Ardagh Glass Inc.
Source Address: 603 East North Street, Winchester, Indiana 47394
Part 70 Permit No.: T135-33915-00012
Facility: Furnace #2
Parameter: Monthly Pull Rate
Limit: The pull rate of Furnace #2 shall be limited to less than 142,350 tons per twelve (12) consecutive month period.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Ardagh Glass Inc.
Source Address: 603 East North Street, Winchester, Indiana 47394
Part 70 Permit No.: T135-33915-00012

Months: _____ to _____ Year: _____

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, 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	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality**

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

Source Description and Location

Source Name:	Ardagh Glass Inc.
Source Location:	603 East North Street, Winchester, Indiana 47394
County:	Randolph
SIC Code:	3221 (Glass Containers)
Operation Permit No.:	T135-33915-00012
Operation Permit Issuance Date:	January 14, 2015
Significant Source Modification No.:	135-36668-00012
Significant Permit Modification No.:	135-36746-00012
Permit Reviewer:	Amal Agharkar

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 135-33915-00012 on January 14, 2016. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Randolph County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. ¹
PM _{2.5}	Unclassifiable or attainment effective April 5, 2005, for the annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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_x emissions are considered when evaluating the rule applicability relating to ozone. Randolph County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Randolph County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (c) Other Criteria Pollutants
Randolph County has been classified as attainment or unclassifiable in Indiana for PM₁₀, SO₂, CO, NO₂, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7; however, there is a New Source Performance Standard that was in effect on August 7, 1980, which applies to this type of source (40 CFR 60, Subpart CC - Standards of Performance for Glass Manufacturing Plants). Therefore, fugitive emissions, from the glass melting furnaces are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (ton/yr)
PM	283
PM ₁₀	349
PM _{2.5}	339
SO ₂	456
NO _x	866
VOC	38.5
CO	55.7
Pb	0.40
Total HAPs	6.57
Single HAP	4.68

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Ardagh Glass Inc. on December 28, 2015, relating to addition of a new abrasive blaster. The following is a list of the new emission unit:

- (a) One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70 Modification to an Existing Source

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.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit. If the control equipment has been determined to be integral, the table reflects the PTE after consideration of the integral control device.

Increase in PTE Before Controls of the New Unit	
Pollutant	Potential To Emit (ton/yr)
PM	53.83
PM ₁₀	53.83
PM _{2.5}	53.83
SO ₂	--
VOC	--
CO	--
NO _x	--

Appendix A of this TSD reflects the unrestricted potential emissions of the modification.

This source modification is subject to 326 IAC 2-7-10.5(g)(4)(A), because the potential to emit PM, PM₁₀ and PM_{2.5} is greater than twenty-five (25) tons per year before control. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because the modification requires a case by case determination of emission limitation and also requires significant changes in existing Part 70 monitoring requirements.

Permit Level Determination – PSD

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Project Emissions (ton/yr)						
	PM	PM ₁₀	PM _{2.5} [*]	SO ₂	NO _x	VOC	CO
Abrasive Blaster	24.9	14.9	9.9	--	--	--	--
Total for Modification	24.9	14.9	9.9	--	--	--	--
PSD Significant Levels	25	15	10	40	40	40	100

*PM_{2.5} listed is direct PM_{2.5}.

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

This modification to an existing major PSD stationary source is not major because the emissions increase of each PSD regulated pollutant, are less than the PSD significant thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

- (a) The PM emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 5.7 pounds per hour;
- (b) The PM₁₀ emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 3.4 pounds per hour; and
- (c) The PM_{2.5} emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 2.28 pounds per hour.

Compliance with the limits above will limit PM, PM₁₀, and PM_{2.5} emissions from the emission unit, identified as Abrasive Blaster to less than 25, 15 and 10 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2016 modification.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

NSPS:

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed new source.

NESHAP:

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed new source.
- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
- (1) has a potential to emit before controls equal to or greater than the Part 70 major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The uncontrolled PM10, and PM2.5 emissions from the blaster are less than the CAM threshold of 100 tons per year, based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to the new units as part of this modification.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 (PSD)

PSD applicability is discussed under the Permit Level Determination – PSD section.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of Abrasive Blaster will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

Pursuant to 326 IAC 6-3-2(e)(1), the allowable particulate matter (PM) from the abrasive blaster shall not exceed 2.96 pounds per hour when operating at a process weight rate of 1229 pounds 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 dust collector shall be in operation at all times the abrasive blaster is in operation, in order to comply with this limit.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance

Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action. If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Testing Requirements

The testing requirement is not needed for this Abrasive Blaster. The potential particulate emissions is 53.83 tons per year. The control device efficiency required to comply with the PM limit is less than 50%. Therefore, the PM, PM10 and PM2.5 shall not be subject to the testing requirements.

The compliance monitoring requirements applicable to this source are as follows

Facilities	Control	Parameter	Frequency	Range	Excursions and Exceedances
Abrasive Blaster	Dust Collector	Visible Emissions	Daily	Normal-Abnormal	Response Steps

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T135:33915-00012. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Change 1: The new emission unit has been added to Section A.2 of the permit accordingly.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

- (o) **One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor.**

Change 2: A construction permit with permit number CP-135-1942, OP 135-00012 was issued on March 19, 1991 to Anchor Glass Container for a glass furnace, identified as No. 2 furnace. At the same time a netting analysis was performed on No. 2 furnace to establish the hour emission rate for PM, SO2 and NOx emissions. On April 24, 1996, the permittee requested an increase in the glass production rate for No. 2 furnace from 340 tons per day to 390 tons per day. The request was approved pursuant to permit number A-135-5897-00012, issued on May 28, 1996 without affecting the hourly emission limits already established for PM, SO2 and NOx in 1991.

The Prevention of Significant Deterioration (PSD) minor Limit in Condition D.1.1 has been updated to make the limit more Federally enforceable. All other conditions have been updated throughout the permit.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired glass furnace, identified as Furnace #1, constructed in 1971 and approved in 2015 for cold repair, with a maximum design melt capacity of 344 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST7.
- (b) One (1) natural gas-fired glass furnace, identified as Furnace #2, constructed in 1973 and approved in 2014 for cold repair, with a maximum design melt capacity of 448 tons of glass per day, with no abatement equipment present and emissions exhausting to stack ST8.
- (c) One (1) glass furnace day bin, servicing Furnace #1, constructed in 1940, with a maximum capacity of 550 tons per day, controlled by baghouse BH3, with emissions exhausting to stack ST5.
- (d) One (1) glass furnace day bin, servicing Furnace #2, constructed in 1991, with a maximum capacity of 650 tons per day, controlled by baghouse BH4, with emissions exhausting to stack ST6.

(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 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

The pull rate of Furnace #2 shall be limited to no greater than 142,350 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Additionally, the following emissions limits apply to Furnace #2:

- (a) Particulate matter (PM) emissions shall not exceed 19.06 pounds per hour;
- (b) Sulfur dioxide (SO₂) emissions shall not exceed 83.6 pounds per hour; and
- (c) Nitrogen oxides (NO_x) emissions shall not exceed 116.6 pounds per hour.

~~Compliance with these limits shall render the requirements of 326 IAC 2-2 (PSD) not applicable.~~

Compliance with these limits will ensure the net significant PM, SO₂, and NO_x emissions from the emission unit, identified as Furnace #2 are less than 25, 40 and 40 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 1991 modification.

D.1.2 Particulate Emissions Limitations for Manufacturing Processes Matter [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes Sources), the following limits apply to the source:

- (a) The **allowable** particulate emissions from Furnace #1 shall not exceed 24.40 pounds per hour when operating at the maximum design melt capacity of 14.33 tons per hour.
- (b) The **allowable** particulate emissions from Furnace #2 shall not exceed ~~26.55~~**29.13** tons per hour when operating at the **maximum design capacity of 18.67 tons per**

~~hour limited capacity of 142,350 tons per twelve (12) consecutive month period (16.25 tons per hour).~~

- (c) The **allowable** particulate emissions from the Furnace #1 Day Bin shall not exceed 33.43 pounds per hour when operating at the maximum capacity of 22.92 tons per hour.
- (d) The **allowable** particulate emissions from the Furnace #2 Day Bin shall not exceed 37.38 pounds per hour when operating at the maximum capacity of 27.08 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:

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

D.1.3 Preventive Maintenance Plans [326 IAC 1-6-3][326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for Furnaces #1 and #2. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

~~A Preventive Maintenance Plan, in accordance with Condition B - Preventive Maintenance Plan of this permit, is required for Furnaces #1, #2.~~

D.1.4 Visible Emission Notations [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

- (a) Visible emission notations of each furnace stack exhaust, and each day bin stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. 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. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.**

~~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.~~

D.1.5 Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain monthly records of the pull rate of Furnace #2.

- (b) To document the compliance status with Condition D.1.4 - Visible Emission Notation, the Permittee shall maintain daily records of the visible emission notations of each furnace stack exhaust, each day bin stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

Change 3: Ardagh Glass Inc is replacing abrasive blasting unit, identified as AB1 by new abrasive blaster. It is removed from the sourcewide potential to emit calculations. To incorporate this change, Section D.2 is modified as follows.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

<p>Emissions Unit Description: *****</p> <p>These include the following mold shop operations:</p> <ul style="list-style-type: none">(1) Two (2) abrasive blasting units, identified as AB1, each with six (6) nozzles and a maximum capacity of two hundred fifty (250) pounds of steel shot per hour per nozzle, and equipped with a cyclonic dust collector. [326 IAC 6-3-2](2) (1) One (1) abrasive blasting unit, identified as AB2, with one (1) nozzle and a maximum capacity of two hundred fifty (250) pounds of glass bead abrasive material per hour, equipped with a cyclonic dust collector, and constructed prior to 1968. [326 IAC 6-3-2](i) One (1) cardboard baler with a throughput of less than two thousand (2,000) tons per year. [326 IAC 6-3-2] <p>(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)</p>
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SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

D.2.1 Particulate Emissions Limitations for Manufacturing Processes Matter [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes Sources), the following limits apply to the source:
 - (1) The **allowable** particulate emissions from the batch storage and conveyance processes shall not exceed 44.58 pounds per hour when operating at the maximum capacity of 50 tons per hour.
 - (2) The **allowable** particulate emissions from the batch mixing process shall not exceed 44.58 pounds per hour when operating at the maximum capacity of 50 tons per hour.

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

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}$$

- (3) The **allowable** particulate emissions from mold swabbing shops #11, #12, and #13, servicing Furnace #1, shall not exceed 24.40 pounds per hour when operating at the maximum capacity of 14.33 tons of glass (as glass bottles) per hour.
- (4) The **allowable** particulate emissions from mold swabbing shops #21, #22, and #23, servicing Furnace #2, shall not exceed ~~26.55~~29.13 pounds per hour when operating at the maximum design capacity of 18.67 tons per hour ~~limited capacity of 142,350 tons per twelve (12) consecutive month period (16.25 tons per hour) (as glass bottles).~~
- (5) The **allowable** particulate emissions from hot end treatment shops #11, #12, and #13, servicing Furnace #1, shall not exceed 24.40 pounds per hour when operating at the maximum capacity of 14.33 tons of glass (as glass bottles) per hour.
- (6) The **allowable** particulate emissions from hot end treatment shops #21, #22, and #23, servicing Furnace #2, shall not exceed ~~26.55~~29.13 pounds per hour when operating at the maximum design capacity of 18.67 tons per hour ~~limited capacity of 142,350 tons per twelve (12) consecutive month period (16.25 tons per hour) (as glass bottles).~~
- (7) The **allowable** particulate emissions from the cullet crushing operation shall not exceed 13.17 pounds per hour when operating at the maximum capacity of 5.71 tons per hour.
- (8) The **allowable** particulate emissions from the mold shop operations shall not exceed 5.31 pounds per hour when operating at the maximum capacity of 1.47 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:

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

- (b) Pursuant to 326 IAC 6-3-2(e)(2), the **allowable** particulate emissions from the cardboard baler shall not exceed 0.551 pounds per hour when operating at the maximum capacity of less than 100 pounds per hour.

Change 4: Sections D.3 is modified as follows.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

D.3.2 **Material Requirements for Cold Cleaner Degreasers** ~~Volatile Organic Compounds [326 IAC 8-3-8]~~

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

D.3.3 **Record Keeping Requirements** ~~[326 IAC 8-3-8]~~**[326 IAC 2-7-5(3)][326 IAC 2-7-19]**

Change 5: A new Section D.4 has been added to the permit to include all the conditions of the new abrasive blaster.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (o) **One (1) abrasive blaster, identified as Abrasive Blaster, with a maximum capacity of 1229 pounds of abrasive material per hour, constructed in 2016, using dust collector as control, and exhausting indoor.**

(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.4.1 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following limits:

- (a) The PM emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 5.7 pounds per hour;
- (b) The PM₁₀ emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 3.4 pounds per hour; and
- (c) The PM_{2.5} emission from the abrasive blaster, identified as Abrasive Blaster shall not exceed 2.28 pounds per hour.

Compliance with the limits above will limit PM, PM₁₀, and PM_{2.5} emissions from the emission unit, identified as Abrasive Blaster to less than 25, 15 and 10 tons per year, respectively and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2016 modification.

D.4.2 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable particulate matter (PM) from the Abrasive Blaster shall not exceed 2.96 pounds per hour when operating at a process weight rate of 1229 pounds 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:

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

Where:

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

D.4.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP) is required for this unit and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-7-6(1)]

D.4.4 Particulate Matter Control [326 IAC 2-7-6(1)]

In order to comply with Condition D.4.1, the dust collector for particulate control shall be in operation and control particulate emissions from the emission unit at all times when the Abrasive Blaster is in operation.

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

D.4.5 Visible Emission Notations [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

- (a) Visible emission notations of Abrasive Blaster dust collector exhaust shall be performed once per day during normal daylight. 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. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

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

D.4.6 Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

- (a) To document the compliance status with Condition D.4.5 - Visible Emission Notation, the Permittee shall maintain daily records of the visible emission notations of Abrasive Blaster dust collector exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (e.g. the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

Change 6: Sections E.1 and E.2 are modified as follows:

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants NESHAP [326 IAC 20-1][40 CFR 63, Subpart A]

SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements
 [326 IAC 2-7-5(1)]**

**E.2.1 General Provisions Relating to National Emission Standards for Hazardous Air
 Pollutants NESHAP [326 IAC 20-1][40 CFR 63, Subpart A]**

Change 7: Part 70 Quarterly Report is modified as follows:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: Ardagh Glass Inc.
 Source Address: 603 East North Street, Winchester, Indiana 47394
 Part 70 Permit No.: T135-33915-00012
 Facility: Furnace #2
 Parameter: Monthly Pull Rate
 Limit: The pull rate of Furnace #2 shall be limited to ~~no greater than~~ **less than** 142,350 tons per twelve (12) consecutive month period.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

Change 8: Ardagh Glass Inc is replacing abrasive blasting unit, identified as AB1 by new abrasive blaster. It is removed from the sourcewide potential to emit calculations. To incorporate this change, Section A.3 is modified as follows.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

- ~~(1) Two (2) abrasive blasting units, identified as AB1, each with six (6) nozzles and a maximum capacity of two hundred fifty (250) pounds of steel shot per hour per nozzle, and equipped with a cyclonic dust collector. [326 IAC 6-3-2]~~
- (1) One (1) abrasive blasting unit, identified as AB2, with one (1) nozzle and a maximum capacity of two hundred fifty (250) pounds of glass bead abrasive material per hour, equipped with a cyclonic dust collector, and constructed prior to 1968. [326 IAC 6-3-2]

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 135-36668-00012 and Significant Permit Modification No. 135-36746-00012. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Amal Agharkar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8422 or toll free at 1-800-451-6027 extension 2-8422.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

Appendix A: Emissions Calculations

Emission Summary

Source Name: Ardagh Glass Inc

Source Location: 603 East North Street, Winchester, Indiana 47394

Permit Number: 135-33915-00012

Permit Reviewer: Amal Agharkar

Date: 3-Feb-2016

Uncontrolled Potential to Emit

	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	HAPs (tons/yr)
Emission Unit								
Abrasive Blaster	53.83	53.83	53.83	0	0	0	0	0
Total Emissions	53.83	53.83	53.83	0.00	0.00	0.00	0.00	0.00

Limited Potential to Emit

	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	HAPs (tons/yr)
Emission Unit								
Abrasive Blaster	24.9	14.9	9.9	0	0	0	0	0
Total Emissions	24.90	14.90	9.90	0.00	0.00	0.00	0.00	0.00

Appendix A: Emission Calculations

Emission Summary
 Company Name: Ardagh Glass Inc
 Source Address: 603 East North Street, Winchester, Indiana 47394
 Permit Number: 135-33915-00012
 SSM Number: 135-36668-00012
 SPM Number: 135-36746-00012
 Reviewer: Amal Agharkar

Uncontrolled/Unlimited Emissions												
Process/Unit	Pollutant											
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	Pb	GHGs as CO _{2e}	Total HAPs	Single Worst HAP	
Furnace #1	113.79	140.46	135.91	213.45	389.24	12.56	12.56	0.19	38,358	0.600	0.572	Hexane
Furnace #2	155.34	191.75	185.53	277.98	506.91	16.35	16.35	0.25	41,469	0.648	0.618	Hexane
Mold Swabbing	31.53	31.53	31.53	-	-	1.75	-	-	-	-	-	-
Hot End Treatment	12.00	12.00	12.00	-	-	-	-	-	-	4.680	4.680	HCl
Batch Storage and Conveyance	0.66	0.24	0.24	-	-	-	-	-	-	-	-	-
Raw Materials Mixing	0.66	0.24	0.24	-	-	-	-	-	-	-	-	-
Furnace #1 Day Bin	0.30	0.11	0.11	-	-	-	-	-	-	-	-	-
Furnace #2 Day Bin	0.36	0.13	0.13	-	-	-	-	-	-	-	-	-
Cullet Crushing	0.84	0.27	0.27	-	-	-	-	-	-	-	-	-
Video Jet Printers	-	-	-	-	-	0.98	-	-	-	-	-	-
Mold Shop - AB2	10.95	10.95	10.95	-	-	-	-	-	-	-	-	-
Cold Cleaner Degreasers	-	-	-	-	-	6.95	-	-	-	-	-	-
Natural Gas Combustion (misc.)	0.65	2.59	2.59	0.20	34.03	1.87	28.59	-	41,083	0.642	0.613	Hexane
Emergency Diesel Fire Pump	0.12	0.12	0.12	0.11	1.67	0.14	0.36	-	62	1.46E-03	4.46E-04	Formaldehyde
Abrasive Blaster	53.83	53.83	53.83	-	-	-	-	-	-	-	-	-
Total	381.02	444.21	433.44	491.75	931.85	40.60	57.85	0.44	120,972	6.572	4.680	HCl

Limited Emissions												
Process/Unit	Pollutant											
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	Pb	GHGs as CO _{2e}	Total HAPs	Single Worst HAP	
Furnace #1	106.87	140.46	135.91	213.45	389.24	12.56	12.56	0.19	38,358	0.600	0.572	Hexane
Furnace #2*	83.48	166.92	161.51	242.00	441.29	14.24	14.24	0.21	41,469	0.648	0.618	Hexane
Mold Swabbing	31.53	31.53	31.53	-	-	1.75	-	-	-	-	-	-
Hot End Treatment	12.00	12.00	12.00	-	-	-	-	-	-	4.680	4.680	HCl
Batch Storage & Conveyance	0.66	0.24	0.24	-	-	-	-	-	-	-	-	-
Raw Materials Mixing	0.13	0.05	0.05	-	-	-	-	-	-	-	-	-
Furnace #1 Day Bin	0.06	0.02	0.02	-	-	-	-	-	-	-	-	-
Furnace #2 Day Bin	0.07	0.03	0.03	-	-	-	-	-	-	-	-	-
Cullet Crushing	0.84	0.27	0.27	-	-	-	-	-	-	-	-	-
Video Jet Printers	-	-	-	-	-	0.98	-	-	-	-	-	-
Mold Shop - AB2	0.55	0.55	0.55	-	-	-	-	-	-	-	-	-
Cold Cleaner Degreasers	-	-	-	-	-	6.95	-	-	-	-	-	-
Natural Gas Combustion (misc.)	0.65	2.59	2.59	0.20	34.03	1.87	28.59	-	41,083	0.642	0.613	Hexane
Emergency Diesel Fire Pump	0.12	0.12	0.12	0.11	1.67	0.14	0.36	-	62	1.46E-03	4.46E-04	Formaldehyde
Abrasive Blaster	24.90	14.90	9.90	-	-	-	-	-	-	-	-	-
Total	261.85	369.66	354.70	455.77	866.23	38.49	55.74	0.40	120,972	6.572	4.680	HCl

Controlled Emissions												
Process/Unit	Pollutant											
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	VOC	CO	Pb	GHGs as CO _{2e}	Total HAPs	Single Worst HAP	
Furnace #1	106.87	140.46	135.91	213.45	389.24	12.56	12.56	0.19	38,358	0.600	0.572	Hexane
Furnace #2*	135.23	166.92	161.51	242.00	441.29	14.24	14.24	0.21	41,469	0.648	0.618	Hexane
Mold Swabbing	31.53	31.53	31.53	-	-	1.75	-	-	-	-	-	-
Hot End Treatment	5.88	5.88	5.88	-	-	-	-	-	-	4.680	4.680	HCl
Batch Storage & Conveyance	0.66	0.24	0.24	-	-	-	-	-	-	-	-	-
Raw Materials Mixing	0.13	0.05	0.05	-	-	-	-	-	-	-	-	-
Furnace #1 Day Bin	0.06	0.02	0.02	-	-	-	-	-	-	-	-	-
Furnace #2 Day Bin	0.07	0.03	0.03	-	-	-	-	-	-	-	-	-
Cullet Crushing	0.84	0.27	0.27	-	-	-	-	-	-	-	-	-
Video Jet Printers	-	-	-	-	-	0.98	-	-	-	-	-	-
Mold Shop - AB2	0.55	0.55	0.55	-	-	-	-	-	-	-	-	-
Cold Cleaner Degreasers	-	-	-	-	-	6.95	-	-	-	-	-	-
Natural Gas Combustion (misc.)	0.65	2.59	2.59	0.20	34.03	1.87	28.59	-	41,083	0.642	0.613	Hexane
Emergency Diesel Fire Pump	0.12	0.12	0.12	0.11	1.67	0.14	0.36	-	62	1.46E-03	4.46E-04	Formaldehyde
Abrasive Blaster	0.54	0.54	0.54	-	-	-	-	-	-	-	-	-
Total	283.12	349.18	339.22	455.76	866.23	38.48	55.74	0.40	120,972	6.572	4.680	HCl

* Pursuant to SPM No. 135-35886-00012, issued August 7, 2015, the pull rate of Furnace #2 shall be limited to no greater than 142,350 tons per twelve month consecutive period. Previously, the pull rate of Furnace #2 was limited to 390 tons per day, pursuant to Administrative Amendment No. 135-5897-00012, in order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable. Also pursuant to AA No. 135-5897-00012, PM emissions from Furnace #2 shall not exceed 19.06 pounds per hour. No limits exist for emissions of PM10 and PM2.5 from Furnace #2.

Note:
 No calculations have been included for the internal bottle treatment operation because the substance used in this operation, 1, 1-Difluoroethane, has been determined to have negligible

Appendix A: Emission Calculations

Abrasive Blasting - Confined

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Potential to Emit Before Control			
FR = Flow rate of actual abrasive (lb/hr) =	136.5600	lb/hr (per nozzle)	
w = fraction of time of wet blasting =	0	%	
N = number of nozzles =	9		
EF = PM emission factor for actual abrasive from Table 1 =	0.010	lb PM/ lb abrasive	
PM10 emission factor ratio for actual abrasive from Table 1 =	1.00	lb PM10 / lb PM	
Potential to Emit (before control) =	PM	PM10	PM2.5
	12.290	12.290	12.290
	294.970	294.970	294.970
	53.832	53.832	53.832
			lb/hr
			lb/day
			ton/yr

Limited PTE to render the requirements of 326 IAC 2-2 (PSD) not applicable

	PM	PM10	PM2.5	
PSD Limit	25.000	15.000	10.000	ton/yr
Limited Emission	5.70	3.40	2.28	lb/hr

Potential to Emit After Control			
Emission Control Device Efficiency =	0.990	0.990	0.990
Potential to Emit (after control) =	0.123	0.123	0.123
	2.950	2.950	2.950
	0.538	0.538	0.538
			lb/hr
			lb/day
			ton/yr

METHODOLOGY

PM2.5 emissions assumed equal to PM10 emissions.

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

326 IAC 6-3-2 limit for Abrasive Blaster is 2.96 pounds per hour when operating at a process weight rate of 1229 pounds per hour

Appendix A: Emission Calculations

Glass Furnace #1

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Maximum Glass Pull:

344 ton/day
 125,560 ton/yr

Pollutant	Emission Factor (lb/ton)	Unlimited PTE (lb/hr)	Unlimited PTE (ton/yr)	Limited PTE (lb/hr)	Limited PTE (ton/yr)
PM	1.81	25.98	113.79	24.40	106.87
PM ₁₀	2.24	32.07	140.46	NA	NA
PM _{2.5}	2.16	31.03	135.91	NA	NA
SO ₂	3.40	48.73	213.45	NA	NA
NO _x	6.20	88.87	389.24	NA	NA
VOC	0.20	2.87	12.56	NA	NA
CO	0.20	2.87	12.56	NA	NA
Pb	3.00E-03	0.04	0.19	NA	NA

Emission Factors

1. Emission factors for NO_x and SO₂ are from AP-42, Section 11.15, Table 11.15-1 (10/86), for uncontrolled melting furnace.
2. Emission factors for CO and VOC are from AP-42, Section 11.15, Table 11.15-2 (10/86), for uncontrolled melting furnace.
3. Emission factor for PM was provided by the source and was determined from facility stack testing conducted December 5-6, 2013.
4. Emission rates for PM₁₀ and PM_{2.5} were derived from filterable PM stack test results per the EPA PM calculator database for an uncontrolled container glass melting furnace (SCC 30501402):

	Ratio (%)
PM ₁₀ (filt)/PM(filt)	95
PM _{2.5} (filt)/PM(filt)	91
PM(cond)/PM ₁₀ (filt)	29.93

Pollutant emission rates are then:

Pollutant	Emission Rate (lb/ton)
PM(filt)	1.81
PM ₁₀ (filt)	1.72
PM _{2.5} (filt)	1.65
PM(cond)	0.52

PM₁₀ and PM_{2.5} are considered to contain condensable PM.

5. Emission factors for H₂SO₄ and Pb were provided by the source and are "Ardagh Group fleetwide emission factors."

Methodology

PTE (lb/hr) = Maximum Glass Pull (ton/day) * Emission Factor (lb/ton) / 24 hr
 PTE (ton/yr) = PTE (lb/hr) * 8760 hr/yr / 2000 lb/ton

Appendix A: Emission Calculations

Glass Furnace #2

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Maximum Glass Pull:

448 ton/day
 163,520 ton/yr

Limited Glass Pull:**

390 ton/day
 142,350 ton/yr

Pollutant	Emission Factor (lb/ton)	Unlimited PTE (lb/hr)	Unlimited PTE (ton/yr)	Limited PTE (lb/hr)*	Limited PTE (ton/yr)**
PM	1.9	35.47	155.34	19.06	83.48
PM10	2.35	43.78	191.75	NA	166.92
PM2.5	2.27	42.36	185.53	NA	161.51
SO2	3.40	63.47	277.98	83.6	242.00
NOx	6.20	115.73	506.91	116.6	441.29
VOC	0.2	3.73	16.35	NA	14.24
CO	0.2	3.73	16.35	NA	14.24
Pb	3.00E-03	0.06	0.25	NA	0.21

* Pursuant to Administrative Amendment No. 135-5897-00012, issued May 28, 1996, and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, PM emissions from Furnace #2 shall not exceed 19.06 lb/hr; SO2 emissions shall not exceed 83.6 lb/hr; and NOx emissions shall not exceed 116.6 lb/hr.

** Pursuant to SPM No. 135-35886-00012, issued August 7, 2015, the pull rate of Furnace #2 shall be limited to no greater than 142,350 tons per twelve month consecutive period. Previously, the pull rate of Furnace #2 was limited to 390 tons per day, pursuant to Administrative Amendment No. 135-5897-00012, in order to render the requirements of 326 IAC 2-2 (PSD) and 40 CFR 52.21 not applicable. Also, pursuant to AA No. 135-5897-00012, PM emissions from Furnace #2 shall not exceed 19.06 pounds per hour. No limits exist for emissions of PM10 and PM2.5 from Furnace #2.

Emission Factors

- Emission factors for NOx, PM, and SO2, are from AP-42, Section 11.15, Table 11.15-1 (10/86), for uncontrolled melting furnace. In the absence of stack-testing data, the "worst-case scenario" from AP-42, of 1.9 lb PM/ton glass, was used.
- Emission factors for CO and VOC are from AP-42, Section 11.15, Table 11.15-2 (10/86), for uncontrolled melting furnace.
- Emission rates for PM10 and PM2.5 were derived from filterable PM stack test results per the EPA PM calculator database for an uncontrolled container glass melting furnace (SCC 30501402):

	Ratio (%)
PM10(filt)/PM(filt)	95
PM2.5(filt)/PM(filt)	91
PM(cond)/PM10(filt)	29.93

Pollutant emission rates are then:

Pollutant	Emission Rate (lb/ton)
PM(filt)	1.9
PM10(filt)	1.81
PM2.5(filt)	1.73
PM(cond)	0.54

PM10 and PM2.5 are considered to contain condensable PM.

- Emission factors for H2SO4 and Pb were provided by the source and are "Ardagh Group fleetwide emission factors."

Appendix A: Emission Calculations
Furnace #1 - Natural Gas - HAPs and GHGs
MMBTU/HR>100

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
74.0	1020	635.5

HAPs - Organics						
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Total - Organics
Potential Emission in tons/yr	6.67E-04	3.81E-04	2.38E-02	5.72E-01	1.08E-03	5.979E-01

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total - Metals
Potential Emission in tons/yr	1.59E-04	3.50E-04	4.45E-04	1.21E-04	6.67E-04	1.741E-03

Total HAPs	5.997E-01
Worst HAP	5.720E-01 Hexane

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See below for Greenhouse Gas calculations.

Greenhouse Gas			
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	38,132	0.7	0.7
Summed Potential Emissions in tons/yr	38,133		
CO2e Total in tons/yr	38,358		

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04
 (AP-42 Supplement D 3/98)
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

GHG Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Furnace #2 - Natural Gas- HAPs and GHGs
MMBTU/HR>100

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
80.0	1020	687.1

HAPs - Organics						
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	Total - Organics
Potential Emission in tons/yr	7.21E-04	4.12E-04	2.58E-02	6.18E-01	1.17E-03	6.464E-01

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	Total - Metals
Potential Emission in tons/yr	1.72E-04	3.78E-04	4.81E-04	1.31E-04	7.21E-04	1.883E-03

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.
 See below for Greenhouse Gas calculations.

Total HAPs	6.483E-01
Worst HAP	6.184E-01 Hexane

Greenhouse Gas			
Emission Factor in lb/MMcf	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	41,224	0.8	0.8
Summed Potential Emissions in tons/yr	41,225		
CO2e Total in tons/yr	41,469		

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas

2

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
 Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-01-006-01, 1-01-006-04
 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

GHG Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

**Appendix A: Emission Calculations
Mold Swabbing Operations**

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Product	Maximum Usage (gal/yr)	Density (lb/gal)	Maximum Usage (lb/yr)	VOC Emission Factor* (lb/lb applied)	PTE VOC (lb/yr)	PTE VOC (ton/yr)	PM/PM ₁₀ /PM _{2.5} Emission Factor** (lb/lb applied)	PTE PM/PM ₁₀ /PM _{2.5} (lb/yr)	PTE PM/PM ₁₀ /PM _{2.5} (ton/yr)
Molac TM	500	8.34	4,170	5%	209	0.10	90%	3,753	1.88
Ring Dope 46	900	8.34	7,506	5%	375	0.19	90%	6,755	3.38
Kleenmold 170	7,000	8.34	58,380	5%	2,919	1.46	90%	52,542	26.27
Total:	8,400		70,056		3,503	1.75		63,050	31.53

* VOC Emission Factor provided by the source. The source believes that a 5% loss of material due to lubricant breakdown at elevated temperatures is the worst-case scenario.

** PM/PM10/PM2.5 Emission Factor provided by the source. The source asserts that the mold swab is about 90% petroleum carrier, which is assumed to be emitted as smoke (PM).

Methodology

Maximum Usage (lb/yr) = Maximum Usage (gal/yr) * Density (lb/gal)

PTE VOC (lb/yr) = Maximum Usage (lb/yr) * VOC Emission Factor (lb/lb applied)

PTE VOC (ton/yr) = PTE VOC (lb/yr) / 2000 lb/ton

PTE PM/PM₁₀/PM_{2.5} (lb/yr) = Maximum Usage (gal/yr) * PM/PM₁₀/PM_{2.5} Emission Factor (lb/lb applied)

PTE PM/PM₁₀/PM_{2.5} (ton/yr) = PTE PM/PM₁₀/PM_{2.5} (lb/yr) / 2000 lb/ton

Appendix A: Emission Calculations

Hot End Treatment Operations

Company Name: Ardagh Glass Inc

Source Address: 603 East North Street, Winchester, Indiana 47394

Permit Number: 135-33915-00012

SSM Number: 135-36668-00012

SPM Number: 135-36746-00012

Reviewer: Amal Agharkar

Uncontrolled PTE

Product	Maximum Usage (lb/yr)	PM/PM ₁₀ /PM _{2.5} Uncontrolled Emission Factor (lb/lb applied)	PTE PM/PM ₁₀ /PM _{2.5} (ton/yr)	HCl Emission Factor** (lb/lb applied)	PTE HCl (ton/yr)
Certincoat TC-100	24,000	1.00	12.00	0.39	4.68

Controlled PTE

Product	Maximum Usage (lb/yr)	PM/PM ₁₀ /PM _{2.5} Controlled Emission Factor* (lb/lb applied)	PTE PM/PM ₁₀ /PM _{2.5} (ton/yr)	HCl Emission Factor** (lb/lb applied)	PTE HCl (ton/yr)
Certincoat TC-100	24,000	0.49	5.88	0.39	4.68

* Emission factor provided by the source. The source states that this emission factor is based on vendor data, and that, for old-style hoods, a PM emission factor of 49% should be used.

** Emission factor provided by the source. Basis: (Weight TC-100 used / molecular weight of butyl tin trichloride)(molecular weight of three molecules of HCl = 109.37) = lb of HCl generated. All HCl generated is assumed emitted. Assumed that all chlorine forms HCl upon decomposition.

Assumptions: All chlorine forms HCl upon decomposition.
 All HCl generated is emitted.
 PTE PM = PTE PM₁₀ = PTE PM_{2.5}

Methodology

PTE PM/PM₁₀/PM_{2.5} (ton/yr) = Maximum Usage (lb/yr) * PM/PM₁₀/PM_{2.5} Emission Factor (lb/lb applied) / 2000 lb/ton

PTE HCl (ton/yr) = Maximum Usage (lb/yr) * HCl Emission Factor (lb/lb applied) / 2000 lb/ton

Appendix A: Emission Calculations

Storage, Conveyance and Mixing

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Batch Storage and Conveyance Process	Capacity:	50 tons/hr 1,200 tons/day 438,000 tons/yr
---	-----------	---

Pollutant	Emission Factor (lb/ton processed)	Potential Emissions (lb/hr)	Potential Emissions (tons/yr)	Limited Potential Emissions (lb/hr)*	Limited Potential Emissions (tons/yr)*
PM	0.00300	0.150	0.66	44.58	195.26
PM ₁₀	0.00110	0.055	0.24	N/A	N/A
PM _{2.5}	0.00110	0.055	0.24	N/A	N/A
SO ₂	-	-	-	-	-
NO _x	-	-	-	-	-
VOC	-	-	-	-	-
CO	-	-	-	-	-
Total HAPs	-	-	-	-	-
Worst Single HAP	-	-	-	-	-

* Pursuant to 326 IAC 6-3-2, particulate emissions from the batch storage and conveying process shall not exceed 44.58 lb/hr when operating at the maximum capacity of 50 ton/hr.

Batch Mixing Process	Capacity:	50 tons/hr 1,200 tons/day 438,000 tons/yr
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Pollutant	Emission Factor (lb/ton processed)	Potential Emissions (lb/hr)	Potential Emissions (tons/yr)	Control Efficiency (baghouse)	Controlled Emissions (tons/yr)	Limited Potential Emissions (lb/hr)**	Limited Potential Emissions (tons/yr)**
PM	0.00300	0.150	0.66	80%	0.13	44.58	195.26
PM ₁₀	0.00110	0.055	0.24	80%	0.05	N/A	N/A
PM _{2.5}	0.00110	0.055	0.24	80%	0.05	N/A	N/A
SO ₂	-	-	-	-	-	-	-
NO _x	-	-	-	-	-	-	-
VOC	-	-	-	-	-	-	-
CO	-	-	-	-	-	-	-
Total HAPs	-	-	-	-	-	-	-
Worst Single HAP	-	-	-	-	-	-	-

** Pursuant to 326 IAC 6-3-2, particulate emissions from the raw materials batch mixing process shall not exceed 44.58 lb/hr when operating at the maximum capacity of 50 ton/hr.

METHODOLOGY

Potential Emissions (lb/hr) = Capacity (tons/hr) * EF

Potential Emissions (tons/yr) = Potential Emissions (lb/hr) * 8760 hr/yr * (1/2000)

Controlled Emissions (tons/yr) = Potential Emissions (tons/yr) * (1 - Control Efficiency)

Notes:

Emission factors are from U.S. EPA AP-42, Chapter 11.19, Tables 11.19.2-2 and 11.19.2-4 (August 2004).

PM_{2.5} emissions are assumed the same as PM₁₀ emissions.

Appendix A: Emission Calculations

Storage, Conveyance and Mixing

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Furnace #1 day bin	Capacity:	22.92 tons/hr 550 tons/day 200,750 tons/yr
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Pollutant	Emission Factor (lb/ton processed)	Potential Emissions (lb/hr)	Potential Emissions (tons/yr)	Control Efficiency (baghouse)	Controlled Emissions (tons/yr)	Limited Potential Emissions (lb/hr)***	Limited Potential Emissions (tons/yr)***
PM	0.00300	0.069	0.30	80%	0.06	33.43	146.42
PM ₁₀	0.00110	0.025	0.11	80%	0.02	N/A	N/A
PM _{2.5}	0.00110	0.025	0.11	80%	0.02	N/A	N/A
SO ₂	-	-	-	-	-	-	-
NO _x	-	-	-	-	-	-	-
VOC	-	-	-	-	-	-	-
CO	-	-	-	-	-	-	-
Total HAPs	-	-	-	-	-	-	-
Worst Single HAP	-	-	-	-	-	-	-

*** Pursuant to 326 IAC 6-3-2, particulate emissions from the Furnace #1 day bin shall not exceed 33.43 lb/hr when operating at the maximum capacity of 22.92 ton/hr.

Furnace #2 day bin	Capacity:	27.08 tons/hr 650 tons/day 237,250 tons/yr
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Pollutant	Emission Factor (lb/ton processed)	Potential Emissions (lb/hr)	Potential Emissions (tons/yr)	Control Efficiency (baghouse)	Controlled Emissions (tons/yr)	Limited Potential Emissions (lb/hr)****	Limited Potential Emissions (tons/yr)****
PM	0.00300	0.081	0.36	80%	0.07	37.38	163.72
PM ₁₀	0.00110	0.030	0.13	80%	0.03	N/A	N/A
PM _{2.5}	0.00110	0.030	0.13	80%	0.03	N/A	N/A
SO ₂	-	-	-	-	-	-	-
NO _x	-	-	-	-	-	-	-
VOC	-	-	-	-	-	-	-
CO	-	-	-	-	-	-	-
Total HAPs	-	-	-	-	-	-	-
Worst Single HAP	-	-	-	-	-	-	-

**** Pursuant to 326 IAC 6-3-2, particulate emissions from the Furnace #2 day bin shall not exceed 37.38 lb/hr when operating at the maximum capacity of 27.08 ton/hr.

METHODOLOGY

Potential Emissions (lb/hr) = Capacity (tons/hr) * EF

Potential Emissions (tons/yr) = Potential Emissions (lb/hr) * 8760 hr/yr * (1/2000)

Controlled Emissions (tons/yr) = Potential Emissions (tons/yr) * (1 - Control Efficiency)

Notes:

Emission factors are from U.S. EPA AP-42, Chapter 11.19, Tables 11.19.2-2 and 11.19.2-4 (August 2004).

PM_{2.5} emissions are assumed the same as PM₁₀ emissions.

Appendix A: Emission Calculations

Cullet Crushing Operations

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Maximum cullet throughput = 148,000 ton/yr

	PM Emission Factor (lb/ton)	PM₁₀ Emission Factor (lb/ton)	PM_{2.5} Emission Factor (lb/ton)	PTE PM (ton/yr)	PTE PM₁₀ (ton/yr)	PTE PM_{2.5}* (ton/yr)
Material Storage Bins	0.0030	0.00010	0.0001	0.222	0.007	0.007
Conveyor Drop Point	0.0030	0.00110	0.00110	0.222	0.081	0.081
Mixers/Cullet Crusher	0.0054	0.0024	0.0024	0.400	0.178	0.178
Total				0.844	0.266	0.266

Emission Factors

Emission Factors are from AP-42, Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," Table 11.19.2-2.

The AP-42 emission factor for "Truck Loading - Conveyor, crushed stone" has been used for PM₁₀ and PM_{2.5} for the material storage bins. No PM emission factor is given.

The AP-42 emission factor for "Conveyor Transfer Point" has been used for the conveyor drop point and for PM emissions from the material storage bins.

The AP-42 emission factor for "Tertiary Crushing" has been used for the mixers and cullet crusher.

* Since AP-42 gives no emission factors for PM_{2.5} for these processes, it is assumed that PM_{2.5} emissions are equal to PM₁₀ emissions.

Appendix A: Emission Calculations

Video Jet Printers

Company Name: Ardagh Glass Inc

Source Address: 603 East North Street, Winchester, Indiana 47394

Permit Number: 135-33915-00012

SSM Number: 135-36668-00012

SPM Number: 135-36746-00012

Reviewer: Amal Agharkar

Product	Maximum Usage (gal/yr)	Density (lb/gal)	Maximum Usage (lb/yr)	Weight % VOC	PTE VOC (ton/yr)
Videojet V-701-D	100	6.67	667	100%	0.33
Videojet V-459-D	50	7.08	354	87%	0.15
Videojet V410-D	50	7.50	375	67%	0.13
Videojet V705-D	100	6.67	667	99%	0.33
Videojet P-Ink Jet	100	8.51	851	8%	0.03
Total:	400		2,914		0.98

Assumption: All VOC in product is emitted.

Methodology

PTE VOC (ton/yr) = Maximum Usage (lb/yr) * Weight % VOC / 2000 lb/ton

Appendix A: Emission Calculations

Mold Shop (Abrasive Blasting) - Glass Bead Material - AB2

Company Name: Ardagh Glass Inc

Source Address: 603 East North Street, Winchester, Indiana 47394

Permit Number: 135-33915-00012

SSM Number: 135-36668-00012

SPM Number: 135-36746-00012

Reviewer: Amal Agharkar

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Potential to Emit Before Control			
FR = Flow rate of actual abrasive (lb/hr) =	250	lb/hr (per nozzle)	
w = fraction of time of wet blasting =	0	%	
N = number of nozzles =	1		
EF = PM emission factor for actual abrasive from Table 1 =	0.010	lb PM/ lb abrasive	
PM10 emission factor ratio for actual abrasive from Table 1 =	1.00	lb PM10 / lb PM	
	PM	PM10	PM2.5
Potential to Emit (before control) =	2.50	2.50	2.50
=	60.00	60.00	60.00
=	10.95	10.95	10.95
			lb/hr
			lb/day
			ton/yr

Potential to Emit After Control			
Emission Control Device Efficiency =	95.0%	95.0%	95.0%
Potential to Emit (after control) =	0.13	0.13	0.13
=	3.00	3.00	3.00
=	0.55	0.55	0.55
			lb/hr
			lb/day
			ton/yr

METHODOLOGY

PM₁₀ emissions and PM_{2.5} emissions are assumed to equal PM emissions.

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)

Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))

Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]

Potential to Emit (tons/year) = [Potential to Emit (lbs/hour)] x [8760 hours/year] x [ton/2000 lbs]

Appendix A: Emission Calculations

VOC Emission Calculations

Cold Cleaner Degreasers

Company Name: Ardagh Glass Inc

Source Address: 603 East North Street, Winchester, Indiana 47394

Permit Number: 135-33915-00012

SSM Number: 135-36668-00012

SPM Number: 135-36746-00012

Reviewer: Amal Agharkar

Solvent Used	Solvent Density (lb/gal)	Combined Cold Cleaner Capacity (gal)	Maximum Usage* (gal/yr)	Maximum Usage* (lb/yr)	Weight % VOC	Percentage Recycled** (ton/yr)	Potential VOC Emissions (ton/yr)	Potential VOC Emissions (lb/hr)
Safety-Kleen Premium Solvent (hydrotreated light distillates)	6.55	902	4,510	29,541	100%	53%	6.95	1.59

*Based on worst-case assumption of 5 refills per year for each cold cleaner degreaser

**Approximately 53% of solvent utilized for degreasing operations is recycled and transported offsite.

Note: The solvent MSDS indicates the product may contain detectable amounts of benzene, p-dichlorobenzene, ethylbenzene, and naphthalene. However, this warning is provided only for California reporting and weight and volume percentages are not supplied. Therefore, the solvent is assumed HAP free.

METHODOLOGY

Maximum Usage (gal/yr) = Combined Cold Cleaner Capacity (gal) * 5 refills/year

Maximum Usage (lb/yr) = Maximum Usage (gal/yr) * Solvent Density (lb/gal)

VOC Emissions (ton/yr) = Maximum Usage (lb/yr) * Weight % VOC * (1 - Percentage Recycled) * 1 ton/2000 lb

VOC Emissions (lb/hr) = Maximum Usage (ton/yr) * Weight % VOC * (1 - Percentage Recycled) * 1 yr/8760 hr

Appendix A: Emission Calculations
Natural Gas - Annealing Lehrs, Mold Ovens and Belt Heater, Space Heaters
Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
79.3	1020	680.7

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.6	2.6	2.6	0.2	34.0	1.9	28.6

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAP Calculations

Emission Factor in lb/MMcf	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	7.147E-04	4.084E-04	2.553E-02	6.126E-01	1.157E-03	6.404E-01

Emission Factor in lb/MMcf	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.702E-04	3.744E-04	4.765E-04	1.293E-04	7.147E-04	1.865E-03
						Total HAPs
						6.423E-01
						Worst HAP
						6.126E-01
						Hexane

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	40,840	0.8	0.7
Summed Potential Emissions in tons/yr	40,842		
CO2e Total in tons/yr	41,083		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

**Appendix A: Emission Calculations
Emergency Diesel Fire Pump (FP1)**

Company Name: Ardagh Glass Inc
Source Address: 603 East North Street, Winchester, Indiana 47394
Permit Number: 135-33915-00012
SSM Number: 135-36668-00012
SPM Number: 135-36746-00012
Reviewer: Amal Agharkar

Output Horsepower Rating (hp)	216.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	108,000

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.12	0.12	0.12	0.11	1.67	0.14	0.36

*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	3.53E-04	1.55E-04	1.08E-04	1.48E-05	4.46E-04	2.90E-04	3.50E-05	6.35E-05

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	1.46E-03
---	-----------------

Methodology

Emission Factors are from AP 42 (Supplement B 10/96) Tables 3.4-1 , 3.4-2, 3.4-3, and 3.4-4.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
 Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Potential Emission in tons/yr	6.21E+01	2.50E-03	5.00E-04

Summed Potential Emissions in tons/yr	62.10
CO2e Total in tons/yr	62.31

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
 CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
 Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) +
 N2O Potential Emission ton/yr x N2O GWP (298).



Indiana Department of Environmental Management

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Michael R. Pence
Governor

Carol S. Comer
Commissioner

March 4, 2016

Mr. Gary Jarrett
Ardagh Glass Inc.
603 East North Street
Winchester, Indiana 47394

Re: Public Notice
Ardagh Glass Inc.
Permit Level: Title V-Significant Permit Modification and
Title V-Significant Source Modification
Permit Number: 135-36746-00012 & 135-36668-00012

Dear Mr. Gary Jarrett:

Enclosed is a copy of your draft Significant Permit Modification and Significant Source Modification, Technical Support Documents, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that The News-Gazette in Winchester, Indiana publish the abbreviated version of the public notice no later than March 9, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Winchester Community Public Library, 125 N. East Street in Winchester, Indiana. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Amal Agharkar, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 2-8422 or dial (317) 232-8422.

Sincerely,

Vicki Biddle

Vicki Biddle
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter 2/17/2016



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ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

March 4, 2016

The News-Gazette
224 W. Franklin Street
Winchester, Indiana 47394

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Ardagh Glass, Inc., Randolph County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than March 9, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

To ensure proper payment, please reference account # 100174737.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Vicki Biddle at 800-451-6027 and ask for extension 3-6867 or dial 317-233-6867.

Sincerely,

Vicki Biddle

Vicki Biddle
Permit Branch
Office of Air Quality

Permit Level: Title V-Significant Permit Modification - Title V- Significant Source Modification
Permit Number: 135-36746-00012 - 135-36668-00012

Enclosure

PN Newspaper.dot 2/17/2016



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Michael R. Pence
Governor

Carol S. Comer
Commissioner

March 4, 2016

To: Winchester Community Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: Ardagh Glass Inc.
Permit Number: 135-36746-00012 & 135-36668-00012

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 2/17/2016



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Commissioner

Notice of Public Comment

March 4, 2016
Ardagh Glass Inc.
135-36746-00012 & 135-36668-00012

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by these proposed air permits. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permits.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permits have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on these draft permits, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 2/17/2016



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Carol S. Comer
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

March 4, 2016

A 30-day public comment period has been initiated for:

Permit Number: 135-36746-00012 & 135-36668-00012
Applicant Name: Ardagh Glass Inc.
Location: Winchester, Randolph County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<http://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification.dot 2/17/2016

Mail Code 61-53

IDEM Staff	VBIDDLE 3/4/2016 Ardagh Glass Inc	135-36668-00012 135-36746-00012	DRAFT & DRAFT	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING			
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1		Gary Jarrett Ardagh Glass Inc 603 E North St Winchester IN 47394 (Source CAATS)										
2		Mr. Tony Schroeder Regulatory Affairs Manager-Chemicals Flint Group 1333 N. Kirk Rd. Batavia IL 60510 (Consultant)										
3		Randolph County Commissioners 100 South Main Street Winchester IN 47394 (Local Official)										
4		Winchester City Council and Mayors Office 113 E. Wahington Street Winchester IN 47394 (Local Official)										
5		Winchester Public Library 125 N. East St. Winchester IN 47394-1698 (Library)										
6		Randolph County Health Department 325 S. Oak St Winchester IN 47394 (Health Department)										
7		Nick Adams 55 S Harding St Unit 1B Indianapolis IN 46222 (Affected Party)										
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