



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

TO: Interested Parties / Applicant

DATE: August 30, 2013

RE: Packaging Corporation of America/053-33460-00056

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

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

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

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

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

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

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

Enclosures  
FNPER-AM.dot 6/13/2013



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence  
Governor

Thomas W. Easterly  
Commissioner

Jerry Dunn, Safety & Quality Manager  
Packaging Corporation of America  
520 South First Street  
Gas City, Indiana 46933

August 30, 2013

Re: 053-33460-00056  
First Administrative Amendment to  
R053-15665-00056

Dear Mr. Dunn:

Packaging Corporation of America was issued a Registration No. R053-15665-00056 on September 24, 2002 for an existing stationary corrugated box manufacturing plant located at 520 South First Street Gas City, Indiana 46933. On July 24, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to add of two (2) small parts washers, identified as PW1 and PW2. In addition, the source has indicated that seven (7) additional natural gas-fired space are now operating, instead of two (2), making a total of nine (9) natural gas-fired space heaters.

1. Pursuant to 326 IAC 2-5.5-6(d)(11), this change to the registration is considered administrative amendment because the registration is amended to incorporate a modification that consists of emission units described under 326 IAC 2-1.1-3(e)(1) through 326 IAC 2-1.1-3(e)(31) (Exemptions); and,
2. Pursuant to 326 IAC 2-5.5-6(d)(10), this change to the registration is considered administrative amendment because the registration is amended to incorporate a modification that adds emissions unit of the same type that are already permitted or replaces an existing unit and that will comply with the same applicable requirements and permit terms and conditions as the existing emission unit, and the modification does not result in a potential to emit greater than the thresholds in 326 IAC 2-2 (PSD) or 326 IAC 2-3 (Emission Offset), or does not result in a potential to emit of the source equal to or greater than the thresholds in 326 IAC 2-5.1-3(a) (Permits).

The modification consists of the addition of the following emissions units:

The PTE of the modification is as follows:

Process/ Emission Unit	PTE of Proposed Modification (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
Parts Washers, PW1 and PW2	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0
Seven (7) Natural Gas Space Heaters	0.13	0.50	0.50	0.04	6.61	0.36	5.55	7984	0.124	0.119 Hexane
Total PTE of Proposed Modification	0.13	0.50	0.50	0.04	6.61	1.18	5.55	7984	0.124	0.119 Hexane



- (a) The uncontrolled/unlimited potential to emit of the entire source after the addition of these emission units will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1) (Registration). (See Appendix A for the calculations).
- (b) No new state rules are applicable to this source due to the addition of these emission units.
- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this administrative amendment.

**PTE of the Entire Source After Issuance of the Registration Administrative Amendment**

The table below summarizes the potential to emit of the entire source after the issuance of this administrative amendment, reflecting all limits, of the emission units, using **bold** and ~~strikeouts~~ to show the changes:

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
<del>Nine (9) Two (2)</del> Natural Gas Space Heaters	<del>0.0</del> <b>0.16</b>	<del>0.4</del> <b>0.65</b>	<del>0.4</del> <b>0.65</b>	<del>0.0</del> <b>0.05</b>	<del>4.9</del> <b>8.5</b>	<del>0.1</del> <b>0.47</b>	<del>4.6</del> <b>7.14</b>	<b>10265</b>	<del>0.037</del> <b>0.16</b>	<del>0.0346</del> <b>0.153</b> Hexane
Two (2) Natural Gas Boilers, BL1 & BL2	<del>0.20</del> <b>0.23</b>	<del>0.90</del> <b>0.91</b>	<del>0.90</del> <b>0.91</b>	<del>0.0</del> <b>0.07</b>	<del>12.20</del> <b>11.92</b>	<del>0.70</del> <b>0.66</b>	<del>10.3</del> <b>10.0</b>	<b>14386</b>	<del>0.23</del> <b>0.22</b>	<del>0.21</del> <del>0.22</del> Hexane
Printing Station, INK	0.0	0.0	0.0	0.0	0.0	<del>13.57</del> <b>11.90</b>	0.0	0.0	<del>2.57</del> <b>8.16</b>	<del>2.57</del> <b>8.16</b> Glycol Ethers
Application of Glues/Adhesive, G/A	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
Starch Handling/Silo, S1	3.28	3.28	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper Scrap Collection Cyclone/Baler, PAP	13.14	13.14	13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Laminator, LC-115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Parts Washers, PW1 and PW2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.82</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Total PTE of Entire Source	<del>46.62</del> <b>16.80</b>	<del>47.42</del> <b>17.97</b>	<del>47.42</del> <b>17.97</b>	<del>0.0</del> <b>0.12</b>	<del>14.10</del> <b>20.42</b>	<del>14.50</del> <b>13.98</b>	<del>11.9</del> <b>17.1</b>	<b>24651</b>	<del>2.84</del> <b>8.54</b>	<del>2.82</del> <b>8.16</b> Glycol Ethers
Exemptions Levels	5	5	5	10	10	5 or 10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **The 100,000 CO <sub>2</sub> e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

The table below summarizes the potential to emit of the entire source after issuance of this administrative amendment, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted).

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
Nine (9) Natural Gas Space Heaters	0.16	0.65	0.65	0.05	8.5	0.47	7.14	10265	0.16	0.153 Hexane
Two (2) Natural Gas Boilers, BL1 & BL2	0.23	0.91	0.91	0.07	11.92	0.66	10.0	14386	0.22	0.21 Hexane
Printing Station, INK	0.0	0.0	0.0	0.0	0.0	11.90	0.0	0.0	8.16	8.16 Glycol Ethers
Application of Glues/Adhesive, G/A	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
Starch Handling/Silo, S1	3.28	3.28	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper Scrap Collection Cyclone/Baler, PAP	13.14	13.14	13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Laminator, LC-115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washers, PW1 and PW2	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0
Total PTE of Entire Source	16.80	17.97	17.97	0.12	20.42	13.98	17.1	24651	8.54	8.16 Glycol Ethers
Exemptions Levels	5	5	5	10	10	5 or 10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **The 100,000 CO <sub>2</sub> e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

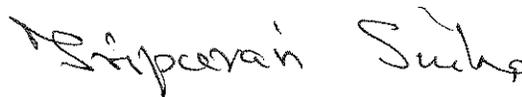
### Greenhouse Gases

Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO2e per year (see Appendix A for the calculations). This did not require any changes to the registration.

The source shall continue to operate according to 326 IAC 2-5.5 (Registrations). Please find enclosed the amended registration and Appendix A. A copy of the registration 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's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

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 Daniel W Pell, at (800) 451-6027, press 0 and ask for Daniel W Pell or extension 4-8532, or dial (317) 234-8532.

Sincerely,



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

TS/dwp

Attachment: Revised Registration

cc: File – Grant County  
Grant County Health Department  
Compliance and Enforcement Branch



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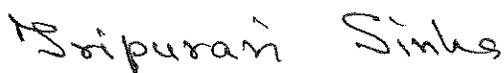
## REGISTRATION OFFICE OF AIR QUALITY

**Packaging Corporation of America  
520 South First Street,  
Gas City, Indiana 46933**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 053-15665-00056	
Original signed by:  Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: September 24, 2002

Registration No. 053-10408-00056, issued on June 1, 1999;  
First Re-Registration No. 053-12891-00056, issued on February 1, 2001;  
First Registration Revision No. 053-15665-00056, issued on September 24, 2002; and  
First Notice-Only Change No. 053-16979-00056, issued on April 7, 2003.

First Registration Administrative Amendment No. 053-33460-00056	
Issued by:   Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: August 30, 2013



## SECTION A

## SOURCE SUMMARY

This registration 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 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

### A.1 General Information

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The Registrant owns and operates an existing stationary corrugated box manufacturing plant.

Source Address:	520 South First Street, Gas City, Indiana 46933
General Source Phone Number:	765-674-9781
SIC Code:	2653
County Location:	Grant County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) Nine (9) natural gas-fired space heaters, each with a heat input capacity of 2.2 MMBtu/hr; two space heaters were installed in 2002, one space heater was installed in 2004, and the remaining space heaters were installed in 2006 or later.
- (b) Two (2) natural gas-fired boilers, identified as BL1 and BL2, each constructed in 1987, with a maximum heat input capacity of 10.50 MMBtu/hr and 17.25 MMBtu/hr, respectively, exhausting through stack ID #001 and #002, respectively.
- (c) One (1) Printing Press Operation, identified as INK, with a maximum ink application rate of 55 lbs/hr and unprinted corrugated sheets feed of 15 tons per hour, exhausting through the general building ventilation system, identified as ID #003, consisting of the following equipment:
  - (1) One (1) flexographic printing press, identified as #254, installed in 2001, with a maximum line speed of 850 ft/min, a printing width of 75 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.
  - (2) One (1) flexographic printing press, identified as #281, with a maximum line speed of 900 ft/min, a printing width of 106 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.
  - (3) Two (2) flexographic printing presses, identified as #317 and #318 each with a maximum line speed of 750 ft/min, a printing width of 79 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.
  - (4) One (1) flexographic printing press, identified as #324, with a maximum line speed of 1000 ft/min, a printing width of 110 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.

- (5) One (1) letter press, identified as #118, with a maximum line speed of 350 ft/min, a maximum printing width of 78 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.
- (6) One (1) Glue/Adhesive Application, identified as G/A, with a maximum rate of 25 pounds of glue/adhesive per hour, exhausting through the general building ventilation system, identified as ID #003.
- (7) One (1) starch storage silo, identified as S1, with a maximum storage capacity of 217,300 pounds of starch, and a handling rate of 680 lbs/hr, utilizing a starch silo filtering system for particulate matter control, exhausting through stack ID #004.
- (8) One (1) paper scrap collection cyclone/baler, identified as PAP, with a maximum rate of 3,000 pounds of paper per hour, utilizing a paper separation cyclone for particulate matter control, exhausting through stack ID #005.
- (9) Two (2) small parts washers, identified as PW1 and PW2, constructed in 2005, with a capacity of 30 gallons each that refilter the solvent for continual use; each with maximum annual solvent usage of 120 gallons/year assuming both parts washers are completely empty at the end of each quarter.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activity:

- (a) One (1) laminator, identified as LC-115, with a maximum rate of 27 lbs of glue/adhesive applied per hour, exhausting through the general building ventilation system, identified as ID #003; the glue/adhesive is water-based and contains no volatile organic compounds (VOC) or federal hazardous air pollutants (HAP); the laminator produces no particulate matter emissions, therefore it is an exempt unit.

## SECTION B

## GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-1.1-1]

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Terms in this registration 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 2-1.1-1) shall prevail.

### B.2 Effective Date of Registration [IC 13-15-5-3]

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Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

### B.3 Registration Revocation [326 IAC 2-1.1-9]

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Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of the fact that continuance of this registration is not consistent with purposes of this article.

### B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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- (a) All terms and conditions of permits established prior to Registration No. 053-15665-00056 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

### B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

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Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 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, IN 46204-2251

- (c) The notification 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.

**B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]**

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Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

**B.7 Registrations [326 IAC 2-5.1-2(i)]**

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Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

**B.8 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration 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 Registrant's control, the PMPs cannot be prepared and maintained within the above time frame, the Registrant may extend the date an additional ninety (90) days provided the Registrant 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 Registrant shall implement the PMPs.

- (b) 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 Registrant to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Registrant is required by 40 CFR Part 60 or 40 CFR Part 63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such OMM Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### **Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]**

#### **C.1.1 Opacity [326 IAC 5-1]**

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

- (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.1.2 Fugitive Dust Emissions [326 IAC 6-4]**

The Registrant 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).

### **Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]**

#### **C.1.3 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]**

- (a) Records of all required monitoring data, reports and support information required by this registration shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.

## SECTION D.1

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) Two (2) natural gas-fired boilers, identified as BL1 and BL2, each constructed in 1987, with a maximum heat input capacity of 10.50 MMBtu/hr and 17.25 MMBtu/hr, respectively, exhausting through stack ID #001 and #002, respectively.

(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

#### D.1.1 Particulate Emissions Limitations for Sources of Indirect Heating [326 IAC 6-2]

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The natural gas-fired combustion units listed below are subject to the requirements of 326 IAC 6 2-4 because each unit began operation after September 21, 1983. Pursuant to 326 IAC 6-2-4(a), particulate emissions from the following indirect heating units shall be limited to the following:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and  
Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

Unit ID	Heat Input Capacity (MMBtu/hr)	Pt (lb/MMBtu) PM
BL1	10.5	0.46
BL2	17.25	

## SECTION D.2

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) starch storage silo, identified as S1, with a maximum storage capacity of 217,300 pounds of starch, and a handling rate of 680 lbs/hr, utilizing a starch silo filtering system for particulate matter control, exhausting through stack ID #004..

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

### Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

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

Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate (PM) emission rate from the Starch Storage Silo, S1, shall not exceed the pound per hour limitations listed in the table below:

Unit ID	Process Weight Rate (ton / hr) P	Allowable Particulate Emission Limits (lbs / hr) E
Starch Storage Silo, S1	0.34	1.99

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

The starch storage silo filtering system for particulate matter control shall be in operation at all times the starch storage system is in operation, in order to comply with this limit.

### SECTION D.3

### OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) paper scrap collection cyclone/baler, identified as PAP, with a maximum rate of 3,000 pounds of paper per hour, utilizing a paper separation cyclone for particulate matter control, exhausting through stack ID #005.

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

#### Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

##### D.3.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate (PM) emission rate from the Paper Scrap Collection Cyclone/Baler, PAP, shall not exceed the pound per hour limitations listed in the table below:

Unit ID	Process Weight Rate (ton / hr) P	Allowable Particulate Emission Limits (lbs / hr) E
Paper Scrap Collection Cyclone/Baler, PAP	1.5	5.37

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

The paper separation cyclone shall be in operation at all times the paper scrap collection baler is in operation, in order to comply with this limit.

## SECTION D.4

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) Two (2) small parts washers, identified as PW1 and PW2, constructed in 2005, with a capacity of 30 gallons each that refilter the solvent for continual use; each with maximum annual solvent usage of 120 gallons/year assuming both parts washers are completely empty at the end of each quarter.

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

### Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]

#### D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990:
- (1) Equip the degreaser with a cover.
  - (2) Equip the degreaser with a device for draining cleaned parts.
  - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
  - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (a)(3), (a)(4), (a)(6), and (a)(7).
  - (6) Store waste solvent only in closed containers.
  - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) The Permittee shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) A refrigerated chiller.
    - (D) Carbon adsorption.

- (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (b)(1)(A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
  - (A) must be a solid, fluid stream; and
  - (B) shall be applied at a pressure that does not cause excessive splashing.

#### D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure than 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).

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

#### D.4.3 Record Keeping Requirements

- (a) Pursuant to 326 IAC 8-3-8(c)(2), on and after January 1, 2015, 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) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

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

**REGISTRATION  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	Packaging Corporation of America
<b>Address:</b>	520 South First Street
<b>City:</b>	Gas City, Indiana 46933
<b>Phone Number:</b>	765-674-9781
<b>Registration No.:</b>	053-15665-00056

I hereby certify that Packaging Corporation of America is:

still in operation.

I hereby certify that Packaging Corporation of America is :

no longer in operation.

in compliance with the requirements of Registration No. 053-15665-00056.

not in compliance with the requirements of Registration No. 053-15665-00056.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Phone Number:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

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

**Technical Support Document (TSD) for a Registration Administrative  
Amendment**

**Source Description and Location**

<b>Source Name:</b>	<b>Packaging Corporation of America, Inc.</b>
<b>Source Location:</b>	<b>520 South First Street, Gas City, Indiana 46933</b>
<b>County:</b>	<b>Grant</b>
<b>SIC Code:</b>	<b>2653</b>
<b>Registration No.:</b>	<b>053-15665-00056</b>
<b>Registration Issuance Date:</b>	<b>September 24, 2002</b>
<b>Registration Revision No.:</b>	<b>053-33460-00056</b>
<b>Permit Reviewer:</b>	<b>Daniel W Pell</b>

On July 24, 2013, the Office of Air Quality (OAQ) received an application from Packaging Corporation of America, Inc., related to a modification at an existing stationary corrugated box manufacturing plant.

**Existing Approvals**

The source was issued Registration No. 053-10408-00053 on June 1, 1999. The source has since received the following approvals:

- (a) Re-registration No. 053-12891-00056, issued on February 1, 2001;
- (b) Registration Revision No. 053-15665-00056, issued on September 24, 2002; and
- (c) Notice-Only No. 053-16979-00056, issued April 7, 2013.

**County Attainment Status**

The source is located in Grant County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

<sup>1</sup>Unclassifiable 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<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Grant County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant

Deterioration (PSD), 326 IAC 2-2.

(b) PM<sub>2.5</sub>

Grant County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective, June 28, 2011.. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Grant County has been classified as attainment or unclassifiable in Indiana for SO<sub>2</sub>, CO, PM<sub>10</sub>, NO<sub>2</sub>, and Pb. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

The fugitive emissions of criteria pollutants, hazardous air pollutants, and greenhouse gases are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

**Status of the Existing Source**

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

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
Two (2) Natural Gas Space Heaters	0.0	0.1	0.1	0.0	1.9	0.1	1.6	-	0.037	0.0347 Hexane
Two (2) Natural Gas Boilers, BL1 & BL2	0.20	0.90	0.90	0.0	12.20	0.70	10.3	-	0.23	0.22 Hexane
Printing Station, INK	0.0	0.0	0.0	0.0	0.0	13.57	0.0	0.0	2.57	2.57 Glycol Ethers
Application of Glues/Adhesive, G/A	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
Starch Handling/Silo, S1	3.28	3.28	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper Scrap Collection Cyclone/Baler, PAP	13.14	13.14	13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total PTE of Entire Source	16.62	17.42	17.42	0.0	14.10	14.50	11.9	-	2.84	2.82 Glycol Ethers
Exemptions Levels**	5	5	5	10	10	5 or 10	25	100,000	25	10

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
Registration Levels**	25	25	25	25	25	25	100	100,000	25	10
negl. = negligible These emissions are based upon Appendix A, Registration No. 053-15665-00056, issued September 24, 2002. **The 100,000 CO <sub>2</sub> e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

**Description of Proposed Revision**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Packaging Corporation of America, Inc., on July 24, 2013, relating to the addition of two (2) small parts washers, identified as PW1 and PW2. In addition, the source has indicated that an additional seven (7) natural gas-fired space heaters are in use. Packaging Corporation of America also noted that letter press #122 has been removed from the Printing Station, INK, and is no longer in operation. The emissions from existing boilers, BL1 and BL2 have been updated for this permit modification. The Insignificant Activities Section was added to the permit and existing Laminator, LC-115, was added to this section as an exempt unit.

The following is a list of the new emission units:

- (a) Two (2) small parts washers, identified as PW1 and PW2, constructed in 2005, with a capacity of 30 gallons each that refilter the solvent for continual use; each with maximum annual solvent usage of 120 gallons/year assuming both parts washers are completely empty at the end of each quarter.
- (b) The source has indicated that seven (7) additional natural gas-fired space heaters are now operating, instead of two (2), making a total of nine (9) natural gas-fired space heaters.

**Enforcement Issues**

There are no pending enforcement actions related to this revision.

**Emission Calculations**

See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination – Registration Modification**

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls of the proposed revision.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
<b>Parts Washers, PW1 and PW2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.82</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Seven (7) Natural Gas Space Heaters</b>	<b>0.13</b>	<b>0.50</b>	<b>0.50</b>	<b>0.04</b>	<b>6.61</b>	<b>0.36</b>	<b>5.55</b>	<b>7984</b>	<b>0.124</b>	<b>0.119 Hexane</b>

Process/ Emission Unit	PTE of Proposed Revision (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
<b>Total PTE of Proposed Revision</b>	<b>0.13</b>	<b>0.50</b>	<b>0.50</b>	<b>0.04</b>	<b>6.61</b>	<b>1.18</b>	<b>5.55</b>	<b>7984</b>	<b>0.124</b>	<b>0.119 Hexane</b>
negl. = negligible										

The addition of the emission units will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-5.5 (Registrations). Therefore, the source will continue to be within the threshold levels specified in a Registration.

**PTE of the Entire Source After Issuance of the Registration Administrative Amendment**

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units.

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
<del>Nine (9) Two (2)</del> Natural Gas Space Heaters	<del>0.0</del> <b>0.16</b>	<del>0.1</del> <b>0.65</b>	<del>0.1</del> <b>0.65</b>	<del>0.0</del> <b>0.05</b>	<del>1.9</del> <b>8.5</b>	<del>0.1</del> <b>0.47</b>	<del>1.6</del> <b>7.14</b>	<b>10265</b>	<del>0.037</del> <b>0.16</b>	<del>0.0346</del> <b>0.153 Hexane</b>
Two (2) Natural Gas Boilers, BL1 & BL2	<del>0.20</del> <b>0.23</b>	<del>0.90</del> <b>0.91</b>	<del>0.90</del> <b>0.91</b>	<del>0.0</del> <b>0.07</b>	<del>12.20</del> <b>11.92</b>	<del>0.70</del> <b>0.66</b>	<del>10.3</del> <b>10.0</b>	<b>14386</b>	<del>0.23</del> <b>0.22</b>	<del>0.21</del> <del>0.22</del> Hexane
Printing Station, INK	0.0	0.0	0.0	0.0	0.0	<del>13.57</del> <b>11.90</b>	0.0	0.0	<del>2.57</del> <b>8.16</b>	<del>2.57</del> <b>8.16</b> Glycol Ethers
Application of Glues/Adhesive, G/A	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
Starch Handling/Silo, S1	3.28	3.28	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper Scrap Collection Cyclone/Baler, PAP	13.14	13.14	13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Laminator, LC-115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Parts Washers, PW1 and PW2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.82</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total PTE of Entire Source</b>	<del>46.62</del> <b>16.80</b>	<del>17.42</del> <b>17.97</b>	<del>17.42</del> <b>17.97</b>	<del>0.0</del> <b>0.12</b>	<del>14.10</del> <b>20.42</b>	<del>14.50</del> <b>13.98</b>	<del>11.9</del> <b>17.1</b>	<b>24651</b>	<del>2.84</del> <b>8.54</b>	<del>2.82</del> <b>8.16</b> <b>Glycol Ethers</b>
Exemptions Levels	5	5	5	10	10	5 or 10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **The 100,000 CO <sub>2</sub> e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source with the Revision (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
Nine (9) Natural Gas Space Heaters	0.16	0.65	0.65	0.05	8.5	0.47	7.14	10265	0.16	0.153 Hexane
Two (2) Natural Gas Boilers, BL1 & BL2	0.23	0.91	0.91	0.07	11.92	0.66	10.0	14386	0.22	0.21 Hexane
Printing Station, INK	0.0	0.0	0.0	0.0	0.0	11.90	0.0	0.0	8.16	8.16 Glycol Ethers
Application of Glues/Adhesive, G/A	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
Starch Handling/Silo, S1	3.28	3.28	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paper Scrap Collection Cyclone/Baler, PAP	13.14	13.14	13.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Laminator, LC-115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Parts Washers, PW1 and PW2	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0
Total PTE of Entire Source	16.80	17.97	17.97	0.12	20.42	13.98	17.1	24651	8.54	8.16 Glycol Ethers
Exemptions Levels	5	5	5	10	10	5 or 10	25	100,000	25	10
Registration Levels	25	25	25	25	25	25	100	100,000	25	10
negl. = negligible *Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **The 100,000 CO <sub>2</sub> e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

- (a) This revision will not change the registration status of the source, because the uncontrolled/unlimited PTE of all regulated criteria pollutants from the entire source will still be

within the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).

- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit greenhouse gases (GHGs) will still be less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

### **Federal Rule Applicability Determination**

The federal rule applicability for this revision is as follows:

#### New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Small Industrial Steam Generating Units, 40 CFR 60, Subpart Dc (326 IAC 12), are not included for this proposed revision, since the natural gas-fired boilers BL1 and BL2 were constructed prior to June 9, 1989.
- (b) The requirements of the New Source Performance Standard for Graphics Arts Industry: Publication Rotogravure Printing, 40 CFR 60, Subpart QQ (326 IAC 12), are not included for this proposed revision, since the five (5) flexographic printing presses and the one (1) letter press are not publication rotogravure printing presses.
- (c) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

#### National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for National Emission Standard for the Printing and Publishing Industry, 40 CFR 63, Subpart KK (326 IAC 20), are not included for this proposed revision, since the printing presses have a single and total HAP emissions less than 10 and 25 tons per year, respectively. Therefore, they are not a major source of HAPs.
- (e) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

### **State Rule Applicability Determination**

The state rules applicable to the existing emission units at this source will not change as a result of this revision.

- (a) 326 IAC 2-5.5 (Registrations)  
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units 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.

- (c) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
  - (1) 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.
  - (2) 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.

**Proposed Changes**

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:

- 1. The source has indicated that seven (7) additional natural gas-fired space are now operating, making a total of nine (9) natural gas-fired space heaters. Two (2) parts washers identified as PW1 and PW2 have been added. Existing Letter Press #122 has been removed from the Printing Station, INK, and is no longer in operation. These changes are indicated in Section A.2.

**A.2 Emission Units and Pollution Control Equipment Summary**

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

- (a) **Nine (9)** ~~Two (2)~~ natural gas-fired space heaters, each with a heat input capacity of 2.2 MMBtu/hr; **two space heaters were installed in 2002, one space heater was installed in 2004, and the remaining space heaters were installed in 2006 or later.**

\*\*\*\*\*

- (c) \*\*\*\*\*

- (1) \*\*\*\*\*

\*\*\*\*\*

- ~~(6) One (1) letter press, identified as #122 with a maximum line speed of 350 ft/min, a maximum printing width of 92 inches, and maximum ink coverage of 0.17 lbs/MMin<sup>2</sup>.~~

- (67)** \*\*\*\*\*

- (78)** \*\*\*\*\*

- (89)** \*\*\*\*\*

- (9) **Two (2) small parts washers, identified as PW1 and PW2, constructed in 2005, with a capacity of 30 gallons each that refilter the solvent for continual use; each with maximum annual solvent usage of 120 gallons/year assuming both parts washers are completely empty at the end of each quarter.**

- 2. Two (2) parts washers identified as PW1 and PW2 have been added to this source. Record Keeping Requirements have been added to Section C as a requirement for this modification involving VOC emissions and Cold Cleaner Operations.

**SECTION C SOURCE OPERATION CONDITIONS**

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**Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)]**

**C.1.3 General Record Keeping Requirements [326 IAC 2-5.1-3(e)(2)]**

- (a) **Records of all required monitoring data, reports and support information required by this registration shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Registrant, the Registrant shall furnish the records to the Commissioner within a reasonable time.**
- (b) **Unless otherwise specified in this registration, for all record keeping requirements not already legally required, the Registrant shall be allowed up to ninety (90) days from the date of registration issuance or the date of initial start-up, whichever is later, to begin such record keeping.**

- 3. Two (2) parts washers identified as PW1 and PW2 have been added to this source. Record Keeping Requirements and Emission Limitations have been added a requirement for this modification involving VOC emissions and Cold Cleaner Operations.

**SECTION D.4 OPERATION CONDITIONS**

**Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:**

- (a) **Two (2) small parts washers, identified as PW1 and PW2, constructed in 2005, with a capacity of 30 gallons each that refilter the solvent for continual use; each with maximum annual solvent usage of 120 gallons/year assuming both parts washers are completely empty at the end of each quarter.**

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

**Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

**D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]**

- (a) **Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990:**

- (1) Equip the degreaser with a cover.
  - (2) Equip the degreaser with a device for draining cleaned parts.
  - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
  - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
  - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (a)(3), (a)(4), (a)(6), and (a)(7).
  - (6) Store waste solvent only in closed containers.
  - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) The Permittee shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent used is insoluble in, and heavier than, water.
    - (C) A refrigerated chiller.
    - (D) Carbon adsorption.
    - (E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (b)(1)(A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
  - (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
  - (3) If used, solvent spray:
    - (A) must be a solid, fluid stream; and
    - (B) shall be applied at a pressure that does not cause excessive splashing.

#### **D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]**

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Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), on and after January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure than 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).**

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

#### D.4.3 Record Keeping Requirements

- (a) Pursuant to 326 IAC 8-3-8(c)(2), on and after January 1, 2015, 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) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

Upon further review, IDEM, OAQ has decided to make the following changes to the permit. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

1. The registration has been updated from the letter style format to the permit style format, as is now standard IDEM procedure. In addition, IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (AI) in registrations.

Paul Olsen  
Packaging Corporation of America  
520 South First Street  
Gas City, Indiana 46933

Re: ~~Registered Construction and Operation Status,~~  
**053-15665-00056**

Dear Mr. Olsen:

~~The application from Packaging Corporation of America, received on October 24, 2000, has been reviewed. Pursuant to the provisions in 326 IAC 2-5.5, the following corrugated boxes manufacturing plant, located at 520 South First Street, Gas City, Indiana, 46933 is being re-registered:~~

- ~~(a) Two (2) natural gas-fired space heaters, each has a heat input capacity of 2.2 million British Thermal Units per hour (mmBtu/hr);~~
- ~~(b) Two (2) natural gas fired boilers, identified as BL1 and BL2, each constructed in 1987, with a maximum heat input capacity of 10.50 mmBtu/hr and 17.25 mmBtu/hr, respectively, exhausting through stack ID # 001 and 002, respectively;~~
- ~~(c) One (1) printing operation, identified as INK, with a maximum ink application rate of 55 pounds per hour (lbs/hr) and unprinted corrugated sheets feed of 15 tons per hour, exhausting through the general building ventilation system, identified as ID # 003, consisting of the following equipment:~~
  - ~~(1) One (1) flexographic printing press, identified as # 254, installed in 2001, with a maximum line speed of 850 feet per minute (ft/min), a printing width of 75~~

inches, and a maximum ink coverage of 0.17 pounds per million square inches (lbs/MMin<sub>2</sub>);

- (2) — One (1) flexographic printing press, identified as # 281 with a maximum line speed of 900 feet per minute (ft/min), a printing width of 106 inches, and a maximum ink coverage of 0.17 lbs/MMin<sub>2</sub>;
  - (3) — Two (2) flexographic printing presses, identified as # 317 and # 318 each with a maximum line speed of 750 ft/min, a printing width of 79 inches, and a maximum ink coverage of 0.17 lbs/MMin<sub>2</sub>;
  - (4) — One (1) flexographic printing press, identified as # 324 with a maximum line speed of 1000 ft/min, a printing width of 110 inches, and a maximum ink coverage of 0.17 lbs/MMin<sub>2</sub>;
  - (5) — One (1) letter press, identified as # 118 with a maximum line speed of 350 ft/min, a maximum printing width of 78 inches, and a maximum ink coverage of 0.17 lbs/MMin<sub>2</sub>;
  - (6) — One (1) letter press, identified as # 122 with a maximum line speed of 350 ft/min, a maximum printing width of 92 inches, and a maximum ink coverage of 0.17 lbs/MMin<sub>2</sub>.
- (d) — Glue/adhesive application, identified as G/A, with a maximum rate of 25.0 pounds of glue/adhesive per hour, exhausting through the general building ventilation system, identified as ID # 003;
  - (e) — One (1) starch storage silo, identified as S1, with a maximum storage capacity of 217,300 pounds of starch, and a handling rate of 680 lbs/hr, utilizing a starch silo filtering system for particulate matter control, exhausting through stack ID # 004; and
  - (f) — One (1) paper scrap collection cyclone/baler, identified as PAP, with a maximum rate of 3,000 pounds of paper per hour, utilizing a paper separation cyclone for particulate matter control, exhausting through stack ID # 005.

The following conditions shall be applicable:

- 1. — Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), 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.
- 2. — Pursuant to 326 IAC 6-2-4 (Emission Limitations for Facilities Specified in 326 IAC 6-2-1(c)), particulate emissions from the two (2) natural gas fired boilers, shall be limited as follows:

Boiler ID	Heat Input Capacity	PM Emission Limit (pound/million Btu)
BL4	10.5	0.46

BL2	17.25	0.46
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The PM limits shall be determined using the following equation:

$Pt = \frac{1.09}{Q^{0.26}}$  where: Pt = Pounds of particulate matter emitted per mmBtu heat input.  
Q = Total source maximum operating capacity rating in mmBtu per hour.

3. Pursuant to 326 IAC 6-3 (Process Operations), the particulate matter (PM) emissions from the starch silo and the paper scrap collection cyclone/baler station shall be limited as follows:

Facility	Process Weight Rate (ton/hour)	PM Emission Limit (pound/hour)
Starch silo, S1	0.34	1.99
Paper scrap collection cyclone/baler station, PAP	1.5	5.37

The PM limits shall be determined using the following equation:

Interpolation and extrapolation 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

This registration is a revised registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

Compliance Data Section  
Office of Air Quality  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

APD

cc: ~~File - Grant County~~  
~~Grant County Health Department~~  
~~Air Compliance - Jim Thorpe~~  
~~Permit Tracking - Janet Mobley~~  
~~Technical Support and Modeling - Michele Boner~~  
~~Compliance Data Section - Karen Nowak~~

<b>Registration Annual Notification</b>
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This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	<b>Packaging Corporation of America</b>
<b>Address:</b>	<b>520 South First Street</b>
<b>City:</b>	<b>Gas City</b>
<b>Authorized individual:</b>	<b>Paul Olsen</b>
<b>Phone #:</b>	<b>(765) 674-9781</b>
<b>Registration #:</b>	<b>053-15665-00056</b>

I hereby certify that **Packaging Corporation of America** is still in operation and is in compliance with the requirements of Registration **053-15665-00056**.

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

\*\*\*\*\*

- The Insignificant Activities Section was added to the permit and existing Laminator, LC-115, was added to this section as an exempt unit.

**A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]**

**This stationary source also includes the following insignificant activities:**

- One (1) laminator, identified as LC-115, with a maximum rate of 27 lbs of glue/adhesive applied per hour, exhausting through the general building ventilation system, identified as ID #003; glue/adhesive is water-based and contains no volatile organic compounds (VOC) or federal hazardous air pollutants**

**(HAP); the laminator produces no particulate matter emissions, therefore it is an exempt unit.**

3. Additional language was added to the Particulate Emissions Limitations section for the existing boilers BL1 and BL2.

**SECTION D.1 OPERATION CONDITIONS**

**Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:**

- (a) Two (2) natural gas-fired boilers, identified as BL1 and BL2, each constructed in 1987, with a maximum heat input capacity of 10.50 MMBtu/hr and 17.25 MMBtu/hr, respectively, exhausting through stack ID #001 and #002, respectively.

**(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 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

**D.1.1 Particulate Emissions Limitations for Sources of Indirect Heating [326 IAC 6-2]  
326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)**

The natural gas-fired combustion units listed below are subject to the requirements of 326 IAC 6 2-4 because each unit began operation after September 21, 1983. Pursuant to 326 IAC 6-2-4(a), particulate emissions from the following indirect heating units shall be limited to the following:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and  
Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input.

Unit ID	Heat Input Capacity (MMBtu/hr)	Pt (lb/MMBtu) PM
BL1	10.5	0.46
BL2	17.25	

4. Additional language was added to the Particulate Emissions Limitations section for the existing starch storage silo, S1.

**SECTION D.2 OPERATION CONDITIONS**

**Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:**

- (a) One (1) starch storage silo, identified as S1, with a maximum storage capacity of 217,300 pounds of starch, and a handling rate of 680 lbs/hr, utilizing a starch silo filtering system for particulate matter control, exhausting through stack ID #004.

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

**Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

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

- (a) Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate (PM) emission rate from the Starch Storage Silo, S1, shall not exceed the pound per hour limitations listed in the table below:

Unit ID	Process Weight Rate (ton / hour) P	Allowable Particulate Emission Limits (lbs / hr) E
Starch Storage Silo, S1	0.34	1.99

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

**The starch storage silo filtering system for particulate matter control shall be in operation at all times the starch storage system is in operation, in order to comply with this limit.**

5. Additional language was added to the Particulate Emissions Limitations section for the existing paper scrap collection cyclone/baler, PAP.

**SECTION D.3 OPERATION CONDITIONS**

**Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:**

- (a) One (1) paper scrap collection cyclone/baler, identified as PAP, with a maximum rate of 3,000 pounds of paper per hour, utilizing a paper separation cyclone for particulate matter control, exhausting through stack ID #005.

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

**Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

**D.3.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]**

- (a) Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate (PM) emission rate from the Paper Scrap Collection Cyclone/Baler, PAP, shall not exceed the pound per hour limitations

listed in the table below:

Unit ID	Process Weight Rate (ton / hr) <b>P</b>	Allowable Particulate Emission Limits (lbs / hr) <b>E</b>
Paper Scrap Collection Cyclone/Baler, PAP	1.5	5.37

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

**The paper separation cyclone shall be in operation at all times the paper scrap collection baler is in operation, in order to comply with this limit.**

6. The Annual Notification and Modification procedures for the source are explained in Sections B.5 and B.6 in the revised format of the permit. The registration has been updated from the letter style format to the permit style format, as is now standard IDEM procedure.

~~An authorized individual shall provide an annual notice to the Office of Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:~~

~~Compliance Data Section  
Office of Air Quality  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015~~

~~no later than March 1 of each year, with the annual notice being submitted in the format attached.~~

~~An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.~~

**B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]**

**Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):**

- (a) **An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.**
- (b) **The annual notice shall be submitted in the format attached no later than March 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, IN 46204-2251

- (c) The notification 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.

**B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]**

Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

7. The format of the Annual Notification Form has been revised as shown.

<b>Registration Annual Notification</b>
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This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	<b>Packaging Corporation of America</b>
<b>Address:</b>	<b>520 South First Street</b>
<b>City:</b>	<b>Gas City</b>
<b>Authorized individual:</b>	<b>Paul Olsen</b>
<b>Phone #:</b>	<b>(765) 674-9781</b>
<b>Registration #:</b>	<b>053-15665-00056</b>

I hereby certify that **Packaging Corporation of America** is still in operation and is in compliance with the requirements of Registration **053-15665-00056**.

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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

REGISTRATION  
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under **326 IAC 2-5.1-2(f)(3)** and **326 IAC 2-5.5-4(a)(3)**.

<b>Company Name:</b>	Packaging Corporation of America
<b>Address:</b>	520 South First Street
<b>City:</b>	Gas City, Indiana 46933
<b>Phone Number:</b>	765-674-9781
<b>Registration No.:</b>	053-15665-00056

I hereby certify that Packaging Corporation of America is:

still in operation.

I hereby certify that Packaging Corporation of America is :

no longer in operation.

in compliance with the requirements of Registration No. 053-15665-00056.

not in compliance with the requirements of Registration No. 053-15665-00056.

<b>Authorized Individual (typed):</b>
Title:
Signature:
<b>Phone Number:</b>
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

**Conclusion and Recommendation**

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 24, 2013.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Administrative Amendment No. 053-33460-00056. The staff recommends to the Commissioner that this Registration Administrative Amendment be approved.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Daniel W Pell 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) 234-8532 or toll free at 1-800-451-6027 extension 4-8532.
- (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's Guide for Citizen Participation and Permit Guide on the Internet at: [www.in.gov/idem](http://www.in.gov/idem)

## Appendix A - Emission Summary Entire Source

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit No.:** 33460  
**Pit ID:** 053-00056  
**Reviewer:** Danie W Pell  
**Date:** August 12, 2013

Emission Unit	Uncontrolled Potential Emissions (tons/yr)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs/CO <sub>2e</sub>	Total HAPs	Worst Single HAP
NG Units: (9) Space Heaters	0.16	0.65	0.65	0.05	8.50	0.47	7.14	10265	0.16	0.15 Hexane
NG Units: Boilers BL1 and BL2	0.23	0.91	0.91	0.07	11.92	0.66	10.01	14386	0.22	0.21 Hexane
INK Printing Press Operation	0.00	0.00	0.00	0.00	0.00	11.90	0.00	0.00	8.16	8.16 Glycol Ethers
Glue/Adhesives Applications	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
One (1) Starch Storage Silo	3.28	3.28	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
One (1) Paper Scrap Collection Cyclone/Baler	13.14	13.14	13.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Laminator LC-115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parts Washers PW1 and PW2	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
<b>Total</b>	<b>16.80</b>	<b>17.97</b>	<b>17.97</b>	<b>0.12</b>	<b>20.42</b>	<b>13.98</b>	<b>17.15</b>	<b>24651</b>	<b>8.54</b>	<b>8.16 Glycol Ethers</b>

**Appendix A: Emissions Calculations**  
**PTE PM/PM10/PM2.5 for the Paper Scrap Collection Cyclone / Baler Station, PAP**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

<b>Emission Unit</b>	<b>Maximum Collection Rate (lbs/hr)</b>	<b>% of Particulate Emissions from Paper Collection</b>	<b>Cyclone Efficiency, 95%</b>	<b>Uncontrolled PM/PM10/PM2.5 Emissions (lbs/hr)</b>	<b>Uncontrolled PM/PM10/PM2.5 Emissions (tons/yr)</b>	<b>Controlled PM/PM10/PM2.5 Emissions (tons/yr)</b>
Paper Scrap Collection Cyclone / Baler Unit, PAP	3,000	0.1%	0.05	3.00	13.14	0.66

**Description:**

As determined in the Registration 053-12891-00056, issued on February 1, 2001. 0.1% of the paper handled is particulate emission.

Cyclone efficiency provided by the source.

The plant scrap paper handling system incorporates a paper separation cyclone and baler. Scrap paper is collected at various pick-up points located throughout the plant and conveyed pneumatically to the paper separation cyclone. The cyclone separates the scrap from the air, and the scrap is conveyed to the paper baler. Besides separating the scrap, the cyclone also controls particulate emissions from handling the scrap.

**Methodology:**

Uncontrolled PM/PM10/PM2.5 Emissions = 3000 lb/hr \* (0.001) \* 8760 hrs/yr \* (1 ton/2000 lb)

Controlled PM/PM10/PM2.5 Emissions = Uncontrolled PM/PM10/PM2.5 Emissions (tons/yr) \* cyclone efficiency (1-.95)

**Appendix A: Emissions Calculations  
PTE VOC for Glue / Adhesive Application \***

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

Emission Unit	Maximum Glue/Adhesion Application Rate (lbs/hr)	Weight % of VOC *	Uncontrolled VOC Emission (tons/yr)
Glue/Adhesive Unit, G/A	25	0.12%	0.13

**Description:**

\* Weight % of VOC provided by source.

**Methodology:**

Uncontrolled VOC Emissions = 25 lb/hr \* (0.0012) \* 8760 hrs/yr \* (1 ton/2000 lb)

**Appendix A: Emissions Calculations**  
**PTE for Starch Handling / Silo**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

Emission Unit	Handling Rate (lbs/hr)	Emission Factor (lbs/ton)	Control Efficiency, 95%	Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr)	Uncontrolled PTE PM/PM10/PM2.5 (tons/year)	Controlled PTE PM/PM10/PM2.5 (tons/year)
Starch Handling / Silo	680	2.20	0.05	0.75	3.28	0.16

**Description:**

The Source states that the Starch Handling / Silo is controlled by a filtering system with 95% efficiency.

The emission factor was obtained from EPA's Compilation of Emission Factors (AP-42), 5th Edition, Chapter 11.17, Table 11.17-4 (Emission Factors for Lime Manufacturing Raw Material and Product Processing and Handling - Product Transfer and Conveying). This emission factor (2.2 lb/ton material) most represents the loading practices for the silo.

**Methodology:**

Uncontrolled PM/PM10 Emissions = 680 lb/hr \* (1 ton/2000 lb) \* 2.2 lb/ton \* 8760 hrs/yr \* (1 ton/2000 lb)

Controlled PM/PM10 Emissions = Uncontrolled PM/PM10 Emissions (tons/yr) \* (1-0.95)

**Appendix A: Emissions Calculations  
HAPs - PTE from Printing Press Operations**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 4693  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

Press ID	Material	Maximum Printing Throughput (MMin <sup>2</sup> /year)	Maximum Coverage (lbs/MMin <sup>2</sup> )	Weight % Glycol Ethers	Glycol Ethers Emissions (tons/year)
Letter Press 118	Ink	172,187	0.17	39.40%	5.77
Printing Press 254	Ink	402,084	0.17	1.15%	0.39
Printing Press 281	Ink	601,707	0.17	1.15%	0.59
Printing Press 317	Ink	373,702	0.17	1.15%	0.37
Printing Press 318	Ink	373,702	0.17	1.15%	0.37
Printing Press 324	Ink	693,792	0.17	1.15%	0.68
TOTAL					8.16

**Methodology:**

\* All inks used are mutually exclusive, Worst Case HAP emissions for flexographic printing are from Ink 395U Green K507 from Sun Chemical.

Worst Case HAP emissions from letter press printing are from GCMI 90 Black ED Ink from Sun Chemical.

Worse case HAP emissions from GCMI 90 Black ink are conservatively considered to be the entire VOC content.

HAPs emission rate (tons/year) = Maximum Throughput (MMin<sup>2</sup>/yr) \* Maximum Coverage (lbs/MMin<sup>2</sup>) \* Weight % HAP \* (1 ton/2000 lbs)

**Appendix A: Emissions Calculations  
VOC From Printing Press Operations**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit Number:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

THROUGHPUT			
Press I.D.	MAXIMUM LINE SPEED (FEET/MIN)	MAXIMUM PRINT WIDTH (INCHES)	MMin <sup>2</sup> /YEAR
Letter Press 118	350	78	172,187
Flexogrpaghic Printing Press 281	900	106	601,707
Flexogrpaghic Printing Press 317	750	79	373,702
Flexogrpaghic Printing Press 318	750	79	373,702
Flexogrpaghic Printing Press 254	850	75	402,084
Flexogrpaghic Printing Press 324	1000	110	693,792

INK VOCS					
Ink Name Press ID	Maxium Coverage '(lbs/MMin <sup>2</sup> )	Weight % Volatiles*	Flash Off %	Throughput (MMin <sup>2</sup> /Year)	Emissions (TONS/YEAR)
Letter Press 118	0.17	39.43%	100.00%	172,187	5.77
Flexogrpaghic Printing Press 281	0.17	2.95%	100.00%	601,707	1.51
Flexogrpaghic Printing Press 317	0.17	2.95%	100.00%	373,702	0.94
Flexogrpaghic Printing Press 318	0.17	2.95%	100.00%	373,702	0.94
Flexogrpaghic Printing Press 254	0.17	2.95%	100.00%	402,084	1.01
Flexogrpaghic Printing Press 324	0.17	2.95%	100.00%	693,792	1.74

Total VOC Emissions = **11.90 Ton/yr**

\*VOC (Tons/Year) = Maximum Coverage pounds per MMin<sup>2</sup> \* Weight % volatiles (weight % of water & organics - weight % of water = weight % organics) \* Flash off \* Throughput  
 \* 1 Ton per 2000 pounds

**METHODOLOGY**

Throughput = Maxium line speed feet per minute \* Convert feet to inches \* Maximum print width inches \* 60 minutes per hour \* 8760 hours per year = MMin<sup>2</sup> per Year

VOC = Maximum Coverage pounds per MMin<sup>2</sup> \* Weight percentage volatiles (water minus organics) \* Flash off \* Throughput \* Tons per 2000 pounds = Tons per Year

NOTE: HEAT SET OFFSET PRINTING HAS AN ASSUMED FLASH OFF OF 80%. NON-HEATSET TYPES OF OFFSET LITHOGRAPHIC PRINTERS HAVE A FLASH OFF OF 5%.

(Source -EPA Guidance, "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing (9/06) )

**Appendix A: Emissions Calculations**  
**VOC - PTE for Two (2) Parts Washers - PW1 and PW2**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 4693  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 14, 2013

<b>Emission Unit</b>	<b>Total Maximum Annual Solvent Usage (gal/yr)</b>	<b>Solvent Specific Gravity</b>	<b>Solvent Density (lbs/gal)</b>	<b>Volatile Content (%)</b>	<b>Total VOC Potential to Emit (ton/yr)</b>
Parts Washers PW1 and PW2	240	0.82	6.84	100%	0.82

**Description:**

The facility has 2 parts washers of 30 gallon capacity each that use Safety Kleen solvents. The parts washers filter and reuse the solve

**Methodology:**

Maximum Annual Solvent Usage (gal/yr) = assumed that both parts washers are completely empty at the end of each quarter.

Weight of water = 8.34 lbs/gal.

Product density (lbs/gal) = Specific Gravity \* 8.34 lb/gal

Density (lbs/gal) = as supplied by MSDS from Safety Kleen.

Volatile Content (%) = as supplied by MSDS from Safety Kleen.

VOC Potential (tpy) = Maximum Annual Solvent Usage (gal/yr) \* Solvent Density (lbs/gal) \* Volatile Content (%) / 2,000 lbs per ton.

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
Nine (9) NG Space Heaters - 2.2 MMBtu/hr (each)  
MM BTU/HR <100**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit Number:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 12, 2013

Heat Input Capacity      HHV      Potential Throughput  
 MMBtu/hr                  mmBtu      MMCF/yr  
    mmscf  
 19.80                          1020                  170.0

Unit ID	Quantity	MMBtu/hr (each)	Combined MMBtu/hr
NG space heaters	9	2.2	19.8
Total			19.8

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.16	0.65	0.65	0.05	8.50	0.47	7.14

\*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

**HAPS Calculations**

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Potential Emission in tons/yr	1.785E-04	1.020E-04	6.377E-03	1.530E-01	2.891E-04	<b>1.600E-01</b>

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Potential Emission in tons/yr	4.251E-05	9.353E-05	1.190E-04	3.231E-05	1.785E-04	<b>4.659E-04</b>

<b>Total HAPs</b>	<b>1.605E-01</b>
<b>Worst HAP</b>	<b>1.530E-01</b>

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 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	10,203	0.2	0.2
Summed Potential Emissions in tons/yr	10,203		
CO2e Total in tons/yr	10,265		

**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 (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion Only**  
**NG Boilers BL1 and BL2**  
**MM BTU/HR <100**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit Number:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 12, 2013

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

Unit ID	Quantity	MMBtu/hr (each)	Combined MMBtu/hr
BL1	1	10.5	10.5
BL2	1	17.25	17.25
Total			27.75

27.75

1020

238.3

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.23	0.91	0.91	0.07	11.92	0.66	10.01

\*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

#### HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03	
Potential Emission in tons/yr	2.502E-04	1.430E-04	8.937E-03	2.145E-01	4.052E-04	<b>2.242E-01</b>

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03	
Potential Emission in tons/yr	5.958E-05	1.311E-04	1.668E-04	4.528E-05	2.502E-04	<b>6.530E-04</b>

<b>Total HAPs</b>	<b>2.249E-01</b>
<b>Worst HAP</b>	<b>2.145E-01</b>

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 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	14,299	0.3	0.3
Summed Potential Emissions in tons/yr	14,300		
CO2e Total in tons/yr	14,386		

#### 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 (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations**  
**PM Limits for Existing NG Boilers BL1 and BL2**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 46933  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 20, 2013

Unit ID	Type of Unit	Maximum Heat Input Capacity (MMBtu/hr)	Q (MMBtu/hr)	Total Maximum Source Q (Based on Year of Construction)	Pt (lb/MMBtu) PM	Construction Date
BL1	Boiler	10.5	10.5 + 17.25 = 27.75	27.75	0.46	1987
BL2	Boiler	17.25				

**NOTE:**

For a total source maximum operating capacity rating, Q, less than 10 MMBtu/hr, particulate emissions, Pt, shall not exceed 0.6 pound per MMBtu of heat input. For Q greater than or equal to 10,000 MMBtu/hr, Pt shall not exceed 0.1 pound per MMBtu of heat input. (326 IAC 6-2-3, (Particulate Emission Limitations for Sources of Indirect Heating))

**Appendix A: Emissions Calculations**  
**PM Limits for Existing Starch Storage Silo, S1**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 4693  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 20, 2013

Unit ID	Process Weight Rate (lbs/hr)	Process Weight Rate (tons/hr)	PM Emission Limit (lbs/hr) [326 IAC 6-3-2]
Starch Storage Silo, S1	680	0.34	1.99

**METHODOLOGY:**

PM Emission Limits =  $(4.10) * P^{0.67}$ ; where P = proces weight rate in tons per hour. (326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes))

**Appendix A: Emissions Calculations**

**PM Limits for Existing Paper Scrap Collection Cyclone / Baler, PAP**

**Company Name:** Packaging Corporation of America  
**Address City IN Zip:** 520 South First Street, Gas City, Indiana 4693  
**Permit No.:** 33460  
**Plt ID:** 053-00056  
**Reviewer:** Daniel W Pell  
**Date:** August 20, 2013

Unit ID	Process Weight Rate (lbs/hr)	Process Weight Rate (tons/hr)	PM Emission Limit (lbs/hr) [326 IAC 6-3-2]
Paper Scrap Collection Cyclone/Baler, PAP	3000	1.5	5.3798

**METHODOLOGY:**

PM Emission Limits =  $(4.10) * P^{0.67}$ ; where P = proces weight rate in tons per hour. (326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes))



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

**TO:** Jerry Dunn  
Packaging Corporation of America  
520 South First Street  
Gas City, IN 46933

**DATE:** August 30, 2013

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
First Administrative Amendment to Registration  
053-33460-00056

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Paul Olsen, Responsible Official  
Ms. Andrea Swanson, Cornerstone Environmental  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 6/13/2013

# Mail Code 61-53

IDEM Staff	PWAY 8/30/2013 Packaging Corporation of America 053-33460-00056 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Jerry Dunn Packaging Corporation of America 520 South First Street Gas City IN 46933 (Source CAATS)										
2		Paul Olsen GM Packaging Corporation of America 520 South First Street Gas City IN 46933 (RO CAATS)										
3		Marion City Council and Mayors Office 301 S. Branson Street Marion IN 46952-4052 (Local Official)										
4		Grant County Commissioners 401 South Adams Marion IN 46953 (Local Official)										
5		Ms. Mary Shipley 10968 E 100 S Marion IN 46953 (Affected Party)										
6		Grant County Health Department 401 S. Adams St, Courthouse Complex Marion IN 46953-2031 (Health Department)										
7		Mr. Thomas Lee Clevenger 4005 South Franks Lane Selma IN 47383 (Affected Party)										
8		Gas City - City Council and Mayors Office 211 E. Main St. Gas City IN 26933 (Local Official)										
9		Ms. Andrea Swanson Cornerstone Environmental 880 Lennox Ct Zionsville IN 46077 (Consultant)										
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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