



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: June 7, 2012

RE: Toray Resin Company / 145-31644-00021

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit 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.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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.dot12/03/07



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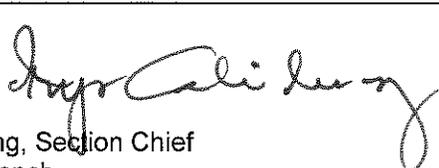
## Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

**Toray Resin Company  
821 Mausoleum Rd.  
Shelbyville, Indiana 46176**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M145-31644-00021	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 7, 2012 Expiration Date: June 7, 2022

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## SECTION A SOURCE SUMMARY

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

### A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary thermoplastic and engineered resin pellets production operation.

Source Address:	821 Mausoleum Rd., Shelbyville, Indiana 46176
General Source Phone Number:	(317) 398-7833
SIC Code:	3087 (Custom Compounding of Purchased Plastics Resins)
County Location:	Shelby
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) plastic pellet production line, identified as P1 with a capacity of 3,200 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC1, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (b) One (1) plastic pellet production line, identified as P2 with a capacity of 800 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC2, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an

- integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (c) One (1) plastic pellet production line, identified as P4 with a capacity of 3,200 lb/hr, constructed in 1994, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC4, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (d) One (1) plastic pellet production line, identified as P5 with a capacity of 3,200 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC5, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (e) One (1) plastic pellet production line, identified as P6 with a capacity of 1,000 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of

the following:

- (1) pneumatic conveying (to and from the line), identified as PC6, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (f) One (1) plastic pellet production line, identified as P7 with a capacity of 2,800 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC7, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (g) Two (2) specialty plastic pellet production line, identified as Y2 and Y3, each with a capacity of 400 lb/hr, constructed in 1996, with particulate emissions from the mixing hopper controlled by one (1) baghouse exhausting to vent ES-1.
- (h) Two (2) large pellet blenders, identified as PB1 and PB2, used for batch blending of raw pellets or finished product pellets. The pellets are pneumatically conveyed to the blenders and removed by gravity feed after blending. Each blender is an enclosed system with no exhaust, therefore the only emissions are from the pneumatic conveyance.
- (i) Various natural gas fired space heaters with a total heat input capacity of 5.3 MMBtu per hour.
- (j) One (1) solvent parts cleaner, installed in 1992, with maximum solvent usage rate of 60 gallons per year.
- (k) One (1) high temperature fluidized sand bed equipped with a single chamber afterburner, installed in 1998, used to remove plastic residue from steel equipment parts, with a maximum process capacity of 3.7 pounds per hour, equipped with a natural gas fired primary chamber rated at 0.1486 MMBtu per hour, exhausting through one (1) cyclone.

- (I) One (1) welding operation consisting of one (1) MIG welder, one (1) TIG welder, one (1) Arc welder and one (1) OxyAcetylene brazing unit, with a combined maximum wire consumption of 50 pounds per year.

Note: The solvent parts cleaner, the high temperature fluidized sand bed, and the welding operation are miscellaneous maintenance department activities at the source.

## **SECTION B GENERAL CONDITIONS**

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

### **B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- (a) This permit, M145-31644-00021, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

### **B.4 Enforceability**

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability**

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

### **B.6 Property Rights or Exclusive Privilege**

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

### **B.7 Duty to Provide Information**

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

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- (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 permit.
- (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, Indiana 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.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality

100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M145-31644-00021 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 permit.

**B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.12 Permit Renewal [326 IAC 2-6.1-7]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.14 Source Modification Requirement**

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

**B.15 Inspection and Entry**  
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

**B.17 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.18 Credible Evidence [326 IAC 1-1-6]**

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

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

**C.2 Permit Revocation [326 IAC 2-1.1-9]**

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

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (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 permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

**C.3 Opacity [326 IAC 5-1]**

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

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

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

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

**C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]**

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

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

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

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

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-6.1-5(a)(2)]**

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

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

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

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

### **Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]**

#### **C.10 Compliance Monitoring [326 IAC 2-1.1-11]**

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

#### **C.11 Instrument Specifications [326 IAC 2-1.1-11]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale

such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

### **Corrective Actions and Response Steps**

#### **C.12 Response to Excursions or Exceedances**

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

#### **C.13 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ

that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

### **Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]**

#### **C.14 Malfunctions Report [326 IAC 1-6-2]**

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

#### **C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]**

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

#### **C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]**

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue

MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) plastic pellet production line, identified as P1 with a capacity of 3,200 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC1, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (b) One (1) plastic pellet production line, identified as P2 with a capacity of 800 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC2, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (c) One (1) plastic pellet production line, identified as P4 with a capacity of 3,200 lb/hr, constructed in 1994, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC4, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;

- (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (d) One (1) plastic pellet production line, identified as P5 with a capacity of 3,200 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC5, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (e) One (1) plastic pellet production line, identified as P6 with a capacity of 1,000 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC6, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (f) One (1) plastic pellet production line, identified as P7 with a capacity of 2,800 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC7, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;

- (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (g) Two (2) specialty plastic pellet production line, identified as Y2 and Y3, each with a capacity of 400 lb/hr, constructed in 1996, with particulate emissions from the mixing hopper controlled by one (1) baghouse exhausting to vent ES-1.
- (h) Two (2) large pellet blenders, identified as PB1 and PB2, used for batch blending of raw pellets or finished product pellets. The pellets are pneumatically conveyed to the blenders and removed by gravity feed after blending. Each blender is an enclosed system with no exhaust, therefore the only emissions are from the pneumatic conveyance.
- (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 2-6.1-5(a)(1)]**

**D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-3]**

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from each of the plastic pellet production lines shall not exceed the following pound per hour limitations:

Production Line	Maximum Process Rate (tons/hr)	Allowable PM Emissions (lb/hr)
P1	1.6	5.62
P2	0.4	2.22
P4	1.6	5.62
P5	1.6	5.62
P6	0.5	2.58
P7	1.4	5.14
Y2	0.2	1.39
Y3	0.2	1.39

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from each of the pneumatic conveyors shall not exceed the following pound per hour limitations:

Pneumatic Conveyor	Maximum Process Rate (tons/hr)	Allowable PM Emissions (lb/hr)
PC1	3.20	8.94
PC2	0.80	3.53
PC4	3.20	8.94
PC5	3.20	8.94
PC6	1.00	4.10
PC7	2.80	8.17
PB2	1.25	4.76

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

### **Compliance Determination Requirements**

#### **D.1.2 Particulate Control**

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In order to comply with 326 IAC 2-6.1 (MSOP), the cyclones and cartridge filters for particulate control shall be in operation at all times the pneumatic conveyors are in operation.

## SECTION D.2

## EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description:

- (j) One (1) solvent parts cleaner, installed in 1992, with maximum solvent usage rate of 60 gallons per year.

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

### Emission Limitations and Standards

#### D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the one (1) solvent parts cleaner shall:

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

#### D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

The one (1) solvent parts cleaner shall comply with the following requirements.

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) The solvent is agitated; or
    - (C) The solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## SECTION D.3

## EMISSIONS UNITS OPERATION CONDITIONS

### Emissions Unit Description:

- (k) One (1) high temperature fluidized sand bed equipped with a single chamber afterburner, installed in 1998, used to remove plastic residue from steel equipment parts, with a maximum process capacity of 3.7 pounds per hour, equipped with a natural gas fired primary chamber rated at 0.1486 MMBtu per hour, exhausting through one (1) cyclone.

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

### Emission Limitations and Standards

#### D.3.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2 (Incinerators: Requirements), the natural gas fired high temperature fluidized sand bed shall comply with the following:

- (a) The incinerator shall comply with the following requirements:
- (1) Consist of primary and secondary chambers or the equivalent.
  - (2) Be equipped with a primary burner unless burning only wood products.
  - (3) Comply with 326 IAC 5-1 and 326 IAC 2.
  - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in paragraph (c) of this condition.
  - (5) Not emit particulate matter in excess of five-tenths (0.5) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.
  - (6) If any of the requirements of (1) through (5) are not met, then the Permittee shall stop charging the high pressure fluidized sand bed until adjustments are made that address the underlying cause of the deviation.
- (b) The incinerator is exempt from subsection (a)(5) if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.
- (c) An owner or operator of the incinerator developing an operation and maintenance plan pursuant to paragraph (a)(4) of this section must comply with the following:
- (1) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in paragraph (a)(5) above and include the following:
    - (A) Procedures for receiving, handling, and charging waste.
    - (B) Procedures for incinerator startup and shutdown.
    - (C) Procedures for responding to a malfunction.
    - (D) Procedures for maintaining proper combustion air supply levels.

- (E) Procedures for operating the high pressure fluidized sand bed and associated air pollution control systems.
  - (F) Procedures for handling ash.
  - (G) A list of wastes that can be burned in the high pressure fluidized sand bed.
- (2) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.
  - (3) The operation and maintenance plan must be readily accessible to incinerator operators.
  - (4) The owner or operator of the incinerator shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.
- (d) The owner or operator of the incinerator shall make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	Toray Resin Company
<b>Address:</b>	821 Mausoleum Rd.
<b>City:</b>	Shelbyville, Indiana 46176
<b>Phone #:</b>	(317) 398-7833
<b>MSOP #:</b>	M145-31644-00021

I hereby certify that Toray Resin Company is:

still in operation.

no longer in operation.

I hereby certify that Toray Resin Company is:

in compliance with the requirements of MSOP M145-31644-00021.

not in compliance with the requirements of MSOP M145-31644-00021.

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

**MALFUNCTION REPORT**  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**FAX NUMBER: (317) 233-6865**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6  
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100 TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERMIT LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ?    Y        N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ?    Y        N

COMPANY: \_\_\_\_\_ PHONE NO. (    ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

Addendum to the Technical Support Document (ATSD) for a  
Minor Source Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Toray Resin Company</b>
<b>Source Location:</b>	<b>821 Mausoleum Rd., Shelbyville, IN 46176</b>
<b>County:</b>	<b>Shelby</b>
<b>SIC Code:</b>	<b>3087 (Custom Compounding of Purchased Plastics Resins)</b>
<b>Permit Renewal No.:</b>	<b>M145-31644-00021</b>
<b>Permit Reviewer:</b>	<b>Sarah Street</b>

On May 2, 2012, the Office of Air Quality (OAQ) had a notice published in Shelbyville-Shelby County Public Library, Shelbyville, Indiana, stating that Toray Resin Company had applied for a relating to the renewal of is operating permit for the continued operation of a stationary thermoplastic and engineered resin pellets production operation. The notice also stated that the OAQ proposed to issue a MSOP Renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

**Comments and Responses**

On April 26, 2012, BCA Consultants submitted comments to IDEM, OAQ on the draft MSOP Renewal

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The comments and revised permit language are provided below with deleted language as ~~strikeouts~~ and new language **bolded**.

**Comment 1:**

Section D.1.1(a) should be revised as follows: The control devices in the table in this Section are listed as ES-1, ES-2, ES-3, etc. They should all be ES-1 since the production lines all connect to a single baghouse.

**Response to Comment 1:**

IDEM agrees with the recommended changes, since the production lines do share a common control device. This information is correct in Section A.2 - Emission Units and Pollution Control Equipment Summary. The permit has been revised as follows, by simply removing the Control Device information from the table in Section D.1.1(a), since the information is not relevant for the emissions limitations for PM required by 326 IAC 6-3-2.

...

**D.1.1 Particulate Matter Limitation (PM) [326 IAC 6-3]**

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from each of the plastic pellet production lines shall not exceed the following pound per hour limitations:

Production Line	Control Device	Maximum Process Rate (tons/hr)	Allowable PM Emissions (lb/hr)
P1	<del>ES-1</del>	1.6	5.62
P2	<del>ES-2</del>	0.4	2.22
P4	<del>ES-3</del>	1.6	5.62
P5	<del>ES-4</del>	1.6	5.62
P6	<del>ES-5</del>	0.5	2.58
P7	<del>ES-6</del>	1.4	5.14
Y2	<del>ES-7</del>	0.2	1.39
Y3	<del>ES-8</del>	0.2	1.39

...

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed MSOP Renewal can be directed to Sarah Street at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8427 or toll free at 1-800-451-6027 extension 2-8427.
- (b) A copy of the permit 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.idem.in.gov](http://www.idem.in.gov)

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

Technical Support Document (TSD) for a  
Minor Source Operating Permit Renewal

<b>Source Background and Description</b>
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<b>Source Name:</b>	<b>Toray Resin Company</b>
<b>Source Location:</b>	<b>821 Mausoleum Rd., Shelbyville, IN 46176</b>
<b>County:</b>	<b>Shelby</b>
<b>SIC Code:</b>	<b>3087 (Custom Compounding of Purchased Plastics Resins)</b>
<b>Permit Renewal No.:</b>	<b>M145-31644-00021</b>
<b>Permit Reviewer:</b>	<b>Sarah Street</b>

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Toray Resin Company relating to the operation of a stationary thermoplastic and engineered resin pellets production operation. On March 22, 2012, Toray Resin Company submitted an application to the OAQ requesting to renew its operating permit. Toray Resin Company was issued its MSOP First Renewal M145-23775-00021 on August 8, 2007.

<b>Permitted Emission Units and Pollution Control Equipment</b>
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The source consists of the following permitted emission units:

- (a) One (1) plastic pellet production line, identified as P1 with a capacity of 3,200 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
  - (1) pneumatic conveying (to and from the line), identified as PC1, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
  
- (b) One (1) plastic pellet production line, identified as P2 with a capacity of 800 lb/hr, constructed in 1992, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
  - (1) pneumatic conveying (to and from the line), identified as PC2, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;

- (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (c) One (1) plastic pellet production line, identified as P4 with a capacity of 3,200 lb/hr, constructed in 1994, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC4, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (d) One (1) plastic pellet production line, identified as P5 with a capacity of 3,200 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC5, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (e) One (1) plastic pellet production line, identified as P6 with a capacity of 1,000 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:

- (1) pneumatic conveying (to and from the line), identified as PC6, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (f) One (1) plastic pellet production line, identified as P7 with a capacity of 2,800 lb/hr, constructed in 1995, with particulate emissions from the weighing, mixing, and staging hoppers controlled by one (1) baghouse exhausting to vent ES-1. This line consists of the following:
- (1) pneumatic conveying (to and from the line), identified as PC7, of the plastic pellets (consisting of thermoplastic and engineered resins), equipped with an integral cyclone and cartridge filters;
  - (2) hoppers for raw materials (the plastic pellets, fill, pigment and additive), weighing, mixing and staging;
  - (3) extrusion of the mixed material;
  - (4) water bath to cool the strands;
  - (5) air sucker to dry the strands; and
  - (6) pelletizing and storage bins for the plastic pellets.
- (g) Two (2) specialty plastic pellet production line, identified as Y2 and Y3, each with a capacity of 400 lb/hr, constructed in 1996, with particulate emissions from the mixing hopper controlled by one (1) baghouse exhausting to vent ES-1.
- (h) Two (2) large pellet blenders, identified as PB1 and PB2, used for batch blending of raw pellets or finished product pellets. The pellets are pneumatically conveyed to the blenders and removed by gravity feed after blending. Each blender is an enclosed system with no exhaust, therefore the only emissions are from the pneumatic conveyance.
- (i) Various natural gas fired space heaters with a total heat input capacity of 5.3 MMBtu per hour.
- (j) One (1) solvent parts cleaner, installed in 1992, with maximum solvent usage rate of 60 gallons per year.
- (k) One (1) high temperature fluidized sand bed equipped with a single chamber afterburner, installed in 1998, used to remove plastic residue from steel equipment parts, with a maximum process capacity of 3.7 pounds per hour, equipped with a natural gas fired primary chamber rated at 0.1486 MMBtu per hour, exhausting through one (1) cyclone.

- (l) One (1) welding operation consisting of one (1) MIG welder, one (1) TIG welder, one (1) Arc welder and one (1) OxyAcetylene brazing unit, with a combined maximum wire consumption of 50 pounds per year.

Note: The solvent parts cleaner, the high temperature fluidized sand bed, and the welding operation are miscellaneous maintenance department activities at the source.

Note: No new emission units are being included as a part of this permit renewal. Further, no emission units have been removed at the source since the last permit approval.

### Existing Approvals

Toray Resin Company was issued its MSOP First Renewal M145-23775-00021 on August 8, 2007.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

### Air Pollution Control Justification as an Integral Part of the Process

The following determination was made in Technical Support Document to MSOP First Renewal No. 145-23775-00021, issued August 8, 2007:

The applicant has submitted the following justification such that the cyclones and cartridge filters be considered an integral part of each pneumatic conveyance system:

For each of the six (6) plastic pellet production lines, a pneumatic conveyance system draws raw pellets up to a hopper (the start of the production line) on the fourth floor where the pellets are separated from the air stream by means of a cyclone receiver. The cyclone receivers are integral to the process. Without them the pellets would not be separated from the air stream and would not enter the hoppers at the start of the production lines. Also, without the cyclones, the value of the product would be zero, since the raw pellets would not be separated from the air stream and the process would not operate.

After the cyclone separators remove the pellets from the air stream, the air passes through additional cartridge filters before exhausting through the vacuum blowers. The maximum inlet loading is 0.03 grains/cf, the air flow is 400 acfm and the filter removes at least 90% of the particulate. The filters are integral to the process because they are in place to prevent damage to the blowers. The absence of the filters results in rapid deterioration of the (high-speed) blower vanes. When the vanes deteriorate the pneumatic conveyance can no longer lift the pellets to the hopper/blenders at the top of the process lines and the production line must be shut down. The blower is shipped air freight, repaired (cost about \$2,500) and returned to the facility with at least 7 days of down-time for the process line. Due to production limits, scheduling and on-time delivery needs the lost production cannot be made up. The facility estimates the cost of production down-time (from whatever cause) at \$300/hr/line. Thus, the loss from a single filter failure is \$52,900. The capital cost of the filter is under \$10,000 and the cost of operating the filters is about \$1,000 per year for filter replacements. Thus, the economic benefit of the filters far outweighs their cost.

IDEM, OAQ has evaluated the justifications and agreed that the cyclones and cartridge filters will be considered as an integral part of the pneumatic conveyance system. This includes the cyclones and cartridge filters for the six plastic pellet production lines as well as those used for

the two large pellet blenders, PB1 and PB2. Therefore, the permitting level will be determined using the potential to emit after the cyclones and cartridge filters. Operating conditions in the proposed permit will specify that the cyclones and cartridge filters shall operate at all times when each pneumatic conveyance system is in operation.

**Enforcement Issue**

There are no enforcement actions pending.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**County Attainment Status**

The source is located in Shelby 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	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Shelby County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
 Shelby 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> and SO<sub>2</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**  
 Shelby County has been classified as attainment or unclassifiable in Indiana all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	39.69
PM <sub>10</sub>	43.97
PM <sub>2.5</sub>	43.97
SO <sub>2</sub>	0.03
VOC	2.41
CO	40.43
NO <sub>x</sub>	2.09
GHGs as CO <sub>2</sub> e	2,881
Single HAP	4.73 Hexane
Total HAP	4.88

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. However, (pollutant) is equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

**Potential to Emit After Issuance**

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

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
Pellet Processing Lines	36.07	40.21	40.21	-	-	40.08	-	-	4.78	4.73 Hexane
Pneumatic Conveying <sup>(1)</sup>	3.27	3.27	3.27	-	-	-	-	-	-	
Degreaser	-	-	-	-	-	0.20	-	-	-	
Welding	0.25	0.25	0.25	-	-	-	-	-	0.06	0.06 Manganese
HP Fluidized Sand Bed	0.06	0.06	0.06	0.02	0.02	0.02	0.08	0.00	-	
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.39	0.13	2.00	2,881	0.06	0.04 Hexane
<b>Total PTE of Entire Source</b>	<b>39.69</b>	<b>43.97</b>	<b>43.97</b>	<b>0.03</b>	<b>2.41</b>	<b>40.43</b>	<b>2.09</b>	<b>2,881</b>	<b>4.88</b>	<b>4.73 Hexane</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO <sub>2</sub> e	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO <sub>2</sub> e	NA	NA

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 (PM<sub>10</sub>), not particulate matter (PM), is considered as a "regulated air pollutant".

\*\*PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.

(1) PTE after control is used for permit level determination because the cyclones and filters are considered integral part of the pneumatic conveyance. The PTE before control is less than 250 tons per year; therefore the requirements of 326 IAC 2-2 are not applicable.

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than one hundred (<100) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year, and it is in one of the twenty-eight (28) listed source categories.

**Federal Rule Applicability**

There are no new federal rules applicable to this source included in this permit renewal. No new equipment is being added with this permit renewal.

New Source Performance Standards (NSPS)

- (a) Standards of Performance for Incinerators (40 CFR 60, Subpart E)  
 The requirements of the New Source Performance Standard 40 CFR Part 60, Subpart E - Standards of Performance for Incinerators, are not included in the permit renewal for the one (1) high pressure fluidized sand bed because the maximum charge capacity of this incinerator is below the rule applicability threshold of 50 tons per day (40 CFR 60.50(a)).
- (b) Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry (40 CFR 60, Subpart DDD)  
 This source is a compounding source that processes, but does not manufacture polypropylene resins. Therefore, the requirements of 40 CFR 60, Subpart DDD, Standards of Performance for

VOC Emissions from the Polymer Manufacturing Industry are not included in the permit renewal for this source.

- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit renewal for this source.

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

- (d) National Emission Standards for Halogenated Solvent Cleaning (40 CFR 63, Subpart T)  
The requirements of the National Emission Standards for Hazardous Air Pollutants, 326 IAC 20, (40 CFR 63, Subpart T) are not included in the permit renewal for the solvent parts cleaning operation since it only uses a cleaning solvent which does not contain any halogenated solvents.
- (e) National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors (40 CFR 63, Subpart EEE)  
The requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart EEE (National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors) (326 IAC 20-28) are not included in the permit renewal for the high pressure fluidized sand bed because this incinerator does not combust any hazardous air pollutants.
- (f) National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (40 CFR 63, Subpart JJJ)  
This source does not process or manufacture a thermoplastic product as defined by 40 CFR 63.1312. Therefore, the requirements of 40 CFR 63, Subpart JJJ, National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins are not included in the permit renewal for this source. In addition, the potential to emit of any combination of HAPs and any single HAP is less than 25 and 10 tons per year, respectively.
- (g) National Emission Standard for Hazardous Air Pollutants: Reinforced Plastic Composites Production (40 CFR 63, Subpart WWWW (4W))  
This source is a resin compounding source. The source does not produce plastic composites, and is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart WWWW (4W), National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, are not included in the permit renewal for this source.
- (h) National Emission Standard for Hazardous Air Pollutants: Chemical Manufacturing Area Sources (40 CFR 63, Subpart VVVVVV (6V))  
This source does not operate a chemical manufacturing process unit (CMPU) that uses as feedstocks, generates as byproducts, or produces as products any of the hazardous air pollutants (HAP) listed in Table 1 to this subpart (Table 1 HAP). Therefore, the requirements of 40 CFR 63, Subpart VVVVVV (6V), National Emission Standards for Hazardous Air Pollutants: Chemical Manufacturing Area Sources, are not included in the permit renewal for this source.
- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

#### Compliance Assurance Monitoring (CAM)

- (j) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit renewal, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

### State Rule Applicability - Entire Source

The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit before control of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO<sub>2</sub>e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-3 (Emission Offset)  
This existing source is not a major stationary source, under Emission Offset (326 IAC 2-3), because Shelby County is an attainment pollutant county. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
- (d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is 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 2-4.1.
- (e) 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.
- (f) 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.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (h) 326 IAC 8-1-6 (Volatile Organic Compounds)  
This source is not subject to this rule. This rule applies to facilities constructed after January 1980, which have potential VOC emissions of 25 tons or more per year, and are not regulated by any other provisions of 326 IAC 8. Each of the plastic pellet production lines was constructed after January 1980; however, each individual line has potential VOC emissions less than 25 tons per year, therefore, this rule does not apply. Further, no other facility at the source has VOC emissions greater than 25 tons per year.

**State Rule Applicability – Individual Facilities**

**Plastic Pellet Processing Lines**

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
 Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations), the particulate matter (PM) emissions from the following processes shall be limited by the following equation:

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

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

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

Operation	Maximum Process Rate (lbs/hr)	Control Device	Maximum Process Rate (tons/hr)	Allowable PM Emissions Pursuant to 326 IAC 6-3-2 (lb/hr)	Uncontrolled Potential PM Emissions (lb/hr)	Able to Comply without Control?
P1	3200	ES-1	1.6	5.62	1.76	yes
P2	800	ES-2	0.4	2.22	0.44	yes
P4	3200	ES-3	1.6	5.62	1.76	yes
P5	3200	ES-4	1.6	5.62	1.76	yes
P6	1000	ES-5	0.5	2.58	0.55	yes
P7	2800	ES-6	1.4	5.14	1.54	yes
Y2	400	ES-7	0.2	1.39	0.22	yes
Y3	400	ES-8	0.2	1.39	0.22	yes

Prior permit approvals required the baghouse ES-1 to be in operation when the plastic pellet production lines are in operation; however, the plastic pellet production lines are able to comply with the allowable PM emission rates pursuant to 326 IAC 6-3-2 before control. Further, this source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit before control of all attainment regulated criteria pollutants are less than 250 tons per year. Therefore, the permit condition requiring the baghouse to operate will be removed in this renewal.

These changes include Title I changes.

**Pneumatic Conveyors**

- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
 Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations), the particulate matter (PM) emissions from the following processes shall be limited by the following equation:

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

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

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

Operation (Pneumatic Conveyors)	Maximum Process Rate (lbs/hr)	Control Device	Maximum Process Rate (tons/hr)	Allowable PM Emissions Pursuant to 326 IAC 6-3-2 (lb/hr)	Uncontrolled Potential PM Emissions (lb/hr)	Able to Comply?
PC1	6,400	Cyclone and a Cartridge filter	3.20	8.94	1.03	yes
PC2	1,600	Cyclone and a Cartridge filter	0.80	3.53	1.03	yes
PC4	6,400	Cyclone and a Cartridge filter	3.20	8.94	1.03	yes
PC5	6,400	Cyclone and a Cartridge filter	3.20	8.94	1.03	yes
PC6	2,000	Cyclone and a Cartridge filter	1.00	4.10	1.03	yes
PC7	5,600	Cyclone and a Cartridge filter	2.80	8.17	1.03	yes
PB1	1,200	Cartridge filter	0.60	N/A	0.26	yes
PB2	2,500	Cartridge filter	1.25	4.76	1.03	yes

Note: The pneumatic conveyor for unit PB1 has less than 0.551 lb/hr potential uncontrolled PM emissions, and, pursuant to 326 IAC 6-3-1(b)(14), this process is exempt from the PM emissions limitations required in 326 IAC 6-3.

IDEM, OAQ has evaluated the justifications and agreed that the cyclones and cartridge filters will be considered as an integral part of the pneumatic conveyance system (see "Air Pollution Control Justification as an Integral Part of the Process" section above). Therefore, there will be no permit term requiring the control to operate in order to comply with these emissions limitations. However, these cyclones and cartridge filters will be required be operated to maintain the MSOP status of the source.

This is a new requirement in this permit renewal. These changes include Title I changes.

**Degreasing**

(k) 326 IAC 8-3-2 (Cold Cleaner Operations)  
 The one (1) solvent parts cleaning operation is subject to the requirements of 326 IAC 8-3-2 (Cold cleaner operation) since it was constructed after January 1, 1980. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations the owner or operator shall:

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

This is an existing requirement.

- (I) 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)  
The one (1) solvent parts cleaning operation is subject to the requirements of 326 IAC 8-3-5 since it was constructed after July 1, 1990. Pursuant to this rule, the Permittee shall comply with the following requirements for cold cleaner degreaser operation and control:
- (1) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the Permittee shall ensure that the following control equipment requirements are met:
- (i) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)));
    - (B) The solvent is agitated; or
    - (C) The solvent is heated.
  - (ii) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (iii) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (iv) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (v) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38<sup>o</sup>C) (one hundred degrees Fahrenheit (100<sup>o</sup>F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9<sup>o</sup>C) (one hundred twenty degrees Fahrenheit (120<sup>o</sup>F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (2) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (i) Close the cover whenever articles are not being handled in the degreaser.

- (ii) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (iii) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

This is an existing requirement.

### **High Temperature Fluidized Sand Bed**

- (m) 326 IAC 4-2-2 (Incinerators)  
The natural gas fired high pressure fluidized sand bed is subject to the requirements of 326 IAC 4-2-1. Pursuant to 326 IAC 4-2-2 (Incinerators), the high pressure fluidized sand bed shall comply with the following:
  - (a) The incinerator shall comply with the following requirements:
    - (1) Consist of primary and secondary chambers or the equivalent.
    - (2) Be equipped with a primary burner unless burning only wood products.
    - (3) Comply with 326 IAC 5-1 and 326 IAC 2.
    - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in paragraph (c) of this condition.
    - (5) Not emit particulate matter in excess of five-tenths (0.5) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air.
    - (6) If any of the requirements of (1) through (5) are not met, then the Permittee shall stop charging the high pressure fluidized sand bed until adjustments are made that address the underlying cause of the deviation.
  - (b) The incinerator is exempt from subsection (a)(5) if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.
  - (c) An owner or operator of the incinerator developing an operation and maintenance plan pursuant to paragraph (a)(4) of this section must comply with the following:
    - (1) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in paragraph (a)(5) above and include the following:
      - (A) Procedures for receiving, handling, and charging waste.
      - (B) Procedures for incinerator startup and shutdown.
      - (C) Procedures for responding to a malfunction.
      - (D) Procedures for maintaining proper combustion air supply levels.
      - (E) Procedures for operating the high pressure fluidized sand bed and associated air pollution control systems.

- (F) Procedures for handling ash.
- (G) A list of wastes that can be burned in the high pressure fluidized sand bed.
- (2) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.
- (3) The operation and maintenance plan must be readily accessible to incinerator operators.
- (4) The owner or operator of the incinerator shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.
- (d) The owner or operator of the incinerator shall make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

This is an existing requirement.

- (n) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(2), incineration is exempt from the requirements of 326 IAC 6-3.

#### **Welding**

- (o) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(9), the welding operation is exempt from the requirements of 326 IAC 6-3-2, because the operation consumes less than 625 pounds of rod or wire per day.

#### **Space Heaters**

- (p) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)  
The natural gas-fired space heaters are not subject to 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating), because, pursuant to 326 IAC 1-2-19, these emission units do not meet the definition of an indirect heating unit.
- (q) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
The natural gas-fired space heaters are exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.

<b>Compliance Determination and Monitoring Requirements</b>
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There are no compliance monitoring or testing requirements included in this permit renewal.

Emission factors for the plastic pellet processing lines (for particulate matter, VOCs, and HAPs) are based on before-control stack tests, and the emissions calculations for the other operations at the source use AP-42 emission factors or baghouse specifications to calculate PTE. Emission units at the source with particulate limitations (pursuant to 326 IAC 6-3-2) are able to comply with the requirements before control.

There are no new emission units or changes in permit terms and conditions since the source's last renewal, No. 145-23775-00021, issued August 8, 2007.

### Recommendation

The staff recommends to the Commissioner that the MSOP Renewal be approved. This recommendation is based on the following facts and conditions:

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 March 22, 2012. Additional information was received on April 6, 2012.

### Conclusion

The operation of this stationary thermoplastic and engineered resin pellets production operation shall be subject to the conditions of the attached MSOP Renewal No. M145-31644-00021.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sarah Street 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) 323-8427 or toll free at 1-800-451-6027 extension 2-8427.
- (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.idem.in.gov](http://www.idem.in.gov)

### Appendix A: Emission Calculations Summary

**Company Name:** Toray Resin Company  
**Address City IN Zip:** 821 Mausoleum Road, Shelbyville, IN 46176  
**Permit Number:** 145-31644-00021  
**Plt ID:** 145-00021  
**Reviewer:** Sarah Street  
**Date:** 3/23/2012

Process/ Emission Units	Unlimited Potential to Emit (tons/yr)									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Worst Single HAP	Total HAP
Pellet Processing Lines	36.07	40.21	40.21	-	-	40.08	-	-	4.73 Hexane	4.78
Pneumatic Conveying <sup>(1)</sup>	3.27	3.27	3.27	-	-	-	-	-	-	-
Degreaser	-	-	-	-	-	0.20	-	-	-	-
Welding	0.25	0.25	0.25	-	-	-	-	-	0.06 Manganese	0.06
HP Fluidized Sand Bed	0.06	0.06	0.06	0.02	0.02	0.02	0.08	0	-	-
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.39	0.13	2.00	2,881	0.04 Hexane	0.05
<b>Total PTE</b>	<b>39.69</b>	<b>43.97</b>	<b>43.97</b>	<b>0.03</b>	<b>2.41</b>	<b>40.43</b>	<b>2.09</b>	<b>2,881</b>	<b>4.77 Hexane</b>	<b>4.88</b>

Process/ Emission Units	Controlled Potential to Emit (tons/yr)									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Worst Single HAP	Total HAP
Pellet Processing Lines	0.07	0.08	0.08	-	-	40.08	-	-	4.73 Hexane	4.78
Pneumatic Conveying <sup>(1)</sup>	3.27	3.27	3.27	-	-	-	-	-	-	-
Degreaser	-	-	-	-	-	0.20	-	-	-	-
Welding	0.25	0.25	0.25	-	-	-	-	-	0.06 Manganese	0.06
HP Fluidized Sand Bed	0.06	0.06	0.06	0.02	0.02	0.02	0.08	0	-	-
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.39	0.13	2.00	2,881	0.04 Hexane	0.06
<b>Total PTE</b>	<b>3.69</b>	<b>3.84</b>	<b>3.84</b>	<b>0.03</b>	<b>2.41</b>	<b>40.43</b>	<b>2.09</b>	<b>2,881</b>	<b>4.77 Hexane</b>	<b>4.88</b>

#### Notes:

(1) The cyclones and cartridge filters are considered as an integral part of the pneumatic conveyance system. Therefore, the permitting level will be determined using the potential to emit after the cyclones and cartridge filters. The PTE before control is less than 250 tons per year; therefore, the requirements of 326 IAC 2-2 are not applicable.

**Appendix A: Emissions Calculations  
VOC and Particulate  
From Extruder, Grinder, and Pelletizer Operations**

Company Name: Toray Resin Company  
Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176  
Permit Number: 145-31644-00021  
Plt ID: 145-00021  
Reviewer: Sarah Street  
Date: 3/23/2012

Operation	Maximum Rate lbs/hr	PM			PM10			VOC		
		Emission Factor lbs/ton <sup>a</sup>	Potential lbs/hr	Potential tons/yr	Emission Factor lbs/ton <sup>b</sup>	Potential lbs/hr	Potential tons/yr	Emission Factor lbs/ton <sup>c</sup>	lbs/hr	tons/yr
<b>Plastic Pellet Processing Lines</b>										
P1	3200	1.098	1.76	7.69	1.224	1.96	8.58	1.22	1.95	8.55
P2	800	1.098	0.44	1.92	1.224	0.49	2.14	1.22	0.49	2.14
P4	3200	1.098	1.76	7.69	1.224	1.96	8.58	1.22	1.95	8.55
P5	3200	1.098	1.76	7.69	1.224	1.96	8.58	1.22	1.95	8.55
P6	1000	1.098	0.55	2.40	1.224	0.61	2.68	1.22	0.61	2.67
P7	2800	1.098	1.54	6.73	1.224	1.71	7.51	1.22	1.71	7.48
<b>Plastic Pellet Minor Specialty Lines</b>										
Y2	400	1.098	0.22	0.96	1.224	0.24	1.07	1.22	0.24	1.07
Y3	400	1.098	0.22	0.96	1.224	0.24	1.07	1.22	0.24	1.07
<b>Uncontrolled Potential Emissions</b>				<b>36.07</b>		<b>40.21</b>				<b>40.08</b>
<b>Controlled Potential Emissions*</b>				<b>0.07</b>		<b>0.08</b>				

Notes:

\* The PM and PM10 emissions from all pellet lines are controlled by one (1) dust collector with control efficiency of 99.8%

a & b. PM and PM10 emission factors are based on stack test before control conducted on July 8, 2002, as required in MSOP 145-15030-00021, issued on January 14, 2002

c. VOC emission factor is from the original MSOP 145-15030-00021, issued on January 14, 2002, which was originally based on a stack test conducted at a similar facility

Assume PM10= PM2.5

**Appendix A: Emissions Calculations  
HAPs  
From Extruder, Grinder, and Pelletizer Operations**

**Company Name: Toray Resin Company  
Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176  
Permit Number: 145-31644-00021  
Plt ID: 145-00021  
Reviewer: Sarah Street  
Date: 3/23/2012**

Operation	Maximum Rate lbs/hr	Hexane		4, 4-methylenebis (2-chloroaniline)		Methyl tert butyl ether	
		Emission Factor lbs/ton	Potential tons/yr	Emission Factor lbs/ton	tons/yr	Emission Factor lbs/ton	tons/yr
<b>Plastic Pellet Processing Lines</b>							
P1	3200	0.152	1.07	0.001	0.007	0.0007	0.005
P2	800	0.152	0.27	0.001	0.002	0.0007	0.001
P4	3200	0.152	1.07	0.001	0.007	0.0007	0.005
P5	3200	0.152	1.07	0.001	0.007	0.0007	0.005
P6	1000	0.152	0.33	0.001	0.002	0.0007	0.002
P7	2800	0.152	0.93	0.001	0.006	0.0007	0.004
<b>Uncontrolled Potential Emissions</b>			<b>4.73</b>		<b>0.031</b>		<b>0.022</b>

**Worst Cast Single HAP (ton/yr): 4.73  
Total HAPs (ton/yr): 4.78**

**Notes:**

HAPs emission factor are from the original MSOP 145-15030-00021, issued on January 14, 2002, which was originally based on a stack test conducted at a similar facility

Uncontrolled Potential Emissions (ton/yr) = Maximum Rate (lb/hr) x (1 ton / 2000 lb) x Emission Factor (lb/ton) x 4.38 (ton/yr / lb/hr)

Controlled Potential Emissions (ton/yr) = Maximum Rate (lb/hr) x (1 ton / 2000 lb) x Emission Factor (lb/ton) x 4.38 (ton/yr / lb/hr) x (1 - control efficiency %)

**Appendix A: Emissions Calculations  
 Particulate Emission Limitations  
 From Extruder, Grinder, and Pelletizer Operations**

**Company Name: Toray Resin Company  
 Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176  
 Permit Number: 145-31644-00021  
 Plt ID: 145-00021  
 Reviewer: Sarah Street  
 Date: 3/23/2012**

**326 IAC 6-3-2 (Particulate Emissions Limitations)**

Operation	Maximum Process Rate (lbs/hr)	Control Device	Maximum Process Rate (tons/hr)	Allowable PM Emissions Pursuant to 326 IAC 6-3-2 (lb/hr)	Uncontrolled Potential PM Emissions (lb/hr)	Able to Comply without Control?
P1	3200	ES-1	1.6	5.62	1.76	yes
P2	800	ES-2	0.4	2.22	0.44	yes
P4	3200	ES-3	1.6	5.62	1.76	yes
P5	3200	ES-4	1.6	5.62	1.76	yes
P6	1000	ES-5	0.5	2.58	0.55	yes
P7	2800	ES-6	1.4	5.14	1.54	yes
Y2	400	ES-7	0.2	1.39	0.22	yes
Y3	400	ES-8	0.2	1.39	0.22	yes
<b>Total</b>	<b>15000</b>			<b>29.57</b>	<b>8.24</b>	

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

**Appendix A: Process Particulate Emissions**

**Company Name:** Toray Resin Company  
**Address City IN Zip:** 821 Mausoleum Road, Shelbyville, IN 46176  
**Permit Number:** 145-31644-00021  
**Plt ID:** 145-00021  
**Reviewer:** Sarah Street  
**Date:** 3/23/2012

<b>PM and PM10 Emissions</b>								
Emission Unit Description	Flowrate (acfm) (a)	Estimated Grain Loading (b) (gr/dscf)	Control Device % Efficiency	Uncontrolled Potential Emissions (ton/yr) *	Controlled Potential Emissions (ton/yr)	Max. Process Weight Rate (lbs/hr)	Max. Process Weight Rate (tons/hr)	Allowable PM Emissions Pursuant to 326 IAC 6-3-2 (lb/hr)
<b><i>Pneumatic Conveyors*</i></b>								
PC1	400	0.030	90.00%	4.51	0.45	6,400	3.20	8.94
PC2	400	0.030	90.00%	4.51	0.45	1,600	0.80	3.53
PC4	400	0.030	90.00%	4.51	0.45	6,400	3.20	8.94
PC5	400	0.030	90.00%	4.51	0.45	6,400	3.20	8.94
PC6	400	0.030	90.00%	4.51	0.45	2,000	1.00	4.10
PC7	400	0.030	90.00%	4.51	0.45	5,600	2.80	8.17
PB1	100	0.030	90.00%	1.13	0.11	1,200	0.60	2.91
PB2	400	0.030	90.00%	4.51	0.45	2,500	1.25	4.76
<i>* Each pneumatic conveyance system is equipped with a cyclone and a cartridge filter (PC1, PC2, PC4-7) or cartridge filter only (PB1, PB2) which are integral to the process. The speciality lines Y2 and Y3 are not supported by pneumatic conveyance but are fed by hand when they operate.</i>								
<b>Total Uncontrolled Potential Emissions (tons/yr):</b>					<b>32.66</b>			
<b>Total Controlled Potential Emissions (metric tons/yr):</b>					<b>3.27</b>			

**Notes:**

- (a) Values are total airflows for all of the baghouses at an emission source
- (b) Grain loading values in the baghouse exhaust, based on manufacturer's data

**Methodology:**

Uncontrolled Potential Emissions (tons/yr) = Grain Loading (gr/dscf) x Air Flow (dscfm) x 60 (min/hr) x 1/7000 (lb/gr) x 1 ton / 2000 lb x 8760 hrs / 1 yr x (1 / 1 - Control Efficiency (%)  
 Controlled Potential Emissions (tons/yr) = Grain Loading (gr/dscf) x Air Flow (dscfm) x 60 (min/hr) x 1/7000 (lb/gr) x 1 ton / 2000 lb x 8760 hrs / 1 yr

**Allowable PM Emissions (326 IAC 6-3)**

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

**Appendix A: Emission Calculations  
VOC  
From Cold Cleaning Operation**

**Company Name: Toray Resin Company  
Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176  
Permit Number: 145-31644-00021  
Pit ID: 145-00021  
Reviewer: Sarah Street  
Date: 3/23/2012**

**Insignificant Activity: One (1) solvent parts cleaner**

Potential Emissions:										
Material (as applied)	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Usage Rate (gal/day)	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year
Safety Clean Premium Gold solvent	6.70	100.00%	0.00%	100.00%	0.00%	0.00%	0.164	0.05	1.10	0.20
<b>Total Potential Emissions:</b>								<b>0.05</b>	<b>1.10</b>	<b>0.201</b>

There are no HAPs present in the cleaning solvent.

Methodology:

Potential VOC Pounds per Hour = Density (lb/gal) \* Usage Rate (gal/day) / 24 hrs/day

Potential VOC Pounds per Day = Density (lb/gal) \* Usage Rate (gal/day)

Potential VOC Tons per Year = Density (lb/gal) \* Usage Rate (gal/day) \* (365 days/yr) \* (1 ton/2000 lbs)

**Appendix A: Emissions Calculations  
Welding and Thermal Cutting**

**Company Name: Toray Resin Company**  
**Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176**  
**Permit Number: 145-31644-00021**  
**Plt ID: 145-00021**  
**Reviewer: Sarah Street**  
**Date: 3/23/2012**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Submerged Arc	1	1	0.036	0.011			0.036	0.011	0.000	0.000	0.011
Metal Inert Gas (MIG)(carbon steel)	1	2	0.0055	0.0005			0.011	0.001	0.000	0.000	0.001
Tungsten Inert Gas (TIG)(carbon steel)	1	1	0.0055	0.0005			0.006	0.001	0.000	0.000	0.001
Oxyacetylene (carbon steel)	1	1	0.0055	0.0005			0.006	0.001	0.000	0.000	0.001
<b>EMISSION TOTALS</b>											
Potential Emissions lbs/hr							0.06	0.01	0.00	0.00	0.01
Potential Emissions lbs/day							1.39	0.31	0.00	0.00	0.31
Potential Emissions tons/year							0.25	0.06	0.00	0.00	0.06

**METHODOLOGY**

\*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

\*\*Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs.

**Appendix A: Emission Calculations**  
**High Temperature Fluidized Sand Bed**

**Company Name:** Toray Resin Company  
**Address City IN Zip:** 821 Mausoleum Road, Shelbyville, IN 46176  
**Permit Number:** 145-31644-00021  
**Plt ID:** 145-00021  
**Reviewer:** Sarah Street  
**Date:** 3/23/2012

**High Temperature Fluidized Sand Bed**

	THROUGHPUT	THROUGHPUT
	lbs/hr	ton/yr
Potential	3.7	16.206

	POLLUTANT				
	PM	SO2	CO	VOC	NOX
Emission Factor in lb/ton	7.0	2.5	10.0	3.0	3.0
Potential Emissions in ton/yr	0.057	0.020	0.081	0.024	0.024

**Methodology**

Emission factors are from AP 42 (5th Edition 1/95) Table 2.1-12, Uncontrolled emission factors for industrial/commercial refuse combustors, multiple chamber  
Throughput (lb/hr) \* 8760 hr/yr \* ton/2000 lb = throughput (ton/yr)

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Company Name: Toray Resin Company**  
**Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176**  
**Permit Number: 145-31644-00021**  
**Plt ID: 145-00021**  
**Reviewer: Sarah Street**  
**Date: 3/23/2012**

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr	Facilities Various Space heaters High Temperature Fluidized Sand Bed <b>Total</b>	MMBtu/hr 5.3 0.1486 <b>5.45</b>
5.45	1000	47.7		

	Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	direct PM2.5* 7.6	SO2 0.6	NOx 100 **see below	VOC 5.5	CO 84
Potential Emission in tons/yr	0.05	0.18	0.18	0.01	2.39	0.13	2.00

\*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/1,000 MMBtu

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

See following page for HAPs emissions calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**HAPs Emissions**

**Company Name: Toray Resin Company**

**Address City IN Zip: 821 Mausoleum Road, Shelbyville, IN 46176**

**Permit Number: 145-31644-00021**

**Plt ID: 145-00021**

**Reviewer: Sarah Street**

**Date: 3/23/2012**

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	5.012E-05	2.864E-05	1.790E-03	4.296E-02	8.114E-05

	HAPs - Metals				
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.193E-05	2.625E-05	3.341E-05	9.069E-06	5.012E-05

Methodology is the same as previous page.

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

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

See following page for Greenhouse Gas calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Greenhouse Gas Emissions**

**Company Name:** Toray Resin Company  
**Address City IN Zip:** 821 Mausoleum Road, Shelbyville, IN 46176  
**Permit Number:** 145-31644-00021  
**Plt ID:** 145-00021  
**Reviewer:** Sarah Street  
**Date:** 3/23/2012

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	2,864	0.1	0.1
Summed Potential Emissions in tons/yr	2,864		
CO2e Total in tons/yr	2,881		

**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).



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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Toll Free (800) 451-6027  
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## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Donald Burnine  
Toray Resin Company  
821 Mausoleum Rd  
Shelbyville, IN 46176

**DATE:** June 7, 2012

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

**SUBJECT:** Final Decision  
MSOP - Renewal  
145-31644-00021

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:  
John Kilmer (Bruce Carter Associates)  
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 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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[www.idem.IN.gov](http://www.idem.IN.gov)

June 7, 2012

TO: Shelby County Public Library - Shelbyville

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

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: Toray Resin Company**  
**Permit Number: 145-31644-00021**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

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1		Donald Burnine Toray Resin Company 821 Mausoleum Rd Shelbyville IN 46176 (Source CAATS) via confirm delivery										
2		Dan Marsicek Plant Mgr Toray Resin Company 821 Mausoleum Rd Shelbyville IN 46176 (RO CAATS)										
3		Mr. Hugh Garner 10203 S Degelow Road Milroy IN 46156 (Affected Party)										
4		Shelbyville City Council and Mayors Office 44 West Washington Shelbyville IN 46176 (Local Official)										
5		Shelby County Commissioners 25 West Polk Shelbyville IN 46176 (Local Official)										
6		Shelbyville Shelby Co Public 57 W Broadway Shelbyville IN 46176-1294 (Library)										
7		Mr. John W. Kilmer Bruce Carter Associates 6330 E 75th Street #150 Indianapolis IN 46250 (Consultant)										
8		Shelby County Health Department 1600 E. SR 44B Shelbyville IN 46176 (Health Department)										
9		Margaret Brunk Shelby County Council PO Box 107 Fountaintown In 46130 (Affected Party)										
10		Tami Grubbs Shelby County Council 2961 N 100 W Shelbyville In 46176 (Affected Party)										
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