



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

TO: Interested Parties / Applicant

DATE: September 10, 2013

RE: Petoskey Plastics, Inc. / 009-33461-00026

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

## Notice of Decision: Approval - Registration

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 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days 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  
FN-REGIS.dot 6/13/2013



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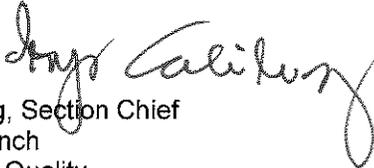
**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

**REGISTRATION  
OFFICE OF AIR QUALITY**

**Petoskey Plastics, Inc.  
1100 West Grant Street  
Hartford City, Indiana 47348**

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

Registration No. 009-33461-00026	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date:  September 10, 2013

## SECTION A

## SOURCE SUMMARY

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

### A.1 General Information

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The Registrant owns and operates a stationary source that recycles polyethylene plastic bags into pellets that are extruded and reprocessed into plastic bags and/or sheeting.

Source Address:	1100 West Grant Street, Hartford City, Indiana 47348
General Source Phone Number:	(765) 348-9808
SIC Code:	3081 (Unsupported Plastics Film and Sheet)
County Location:	Blackford
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

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

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

Dry Line - used industrial plastic bags

- (a) One (1) dry line, identified as R1, constructed in 2007, with a maximum capacity of 3,300 pounds of used industrial plastic polyethylene bags per hour, which are recycled into pellets, and consisting of the following equipment:
- (1) One (1) pneumatic conveying system, identified as System 01, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C1;  
  
This system transfers the plastic pellets from the Dry line to the indoor storage silos.
  - (2) One (1) enclosed shredder;
  - (3) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control, exhausting to the indoors;
  - (4) One (1) extruder, equipped with an electric heater, no control and exhausting to stack E2;
  - (5) One (1) dewatering/vibrating tray; and
  - (6) One (1) weigh hopper.

#### Wash Line - post consumer plastic bags

(b) One (1) wash line, identified as R3, constructed in 2011, with a maximum capacity of 1,210 pounds of post consumer polyethylene plastic bags per hour, which are recycled into pellets, and consisting of the following equipment:

- (1) Two (2) enclosed grinders;
- (2) One (1) pneumatic conveying system, identified as System 03 with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C3;  
  
This system transfers the plastic pellets from the Wash line to the indoor storage silos.
- (3) Two (2) turbo washers using water;
- (4) One (1) wash tank using water;
- (5) One (1) rinse tank using water;
- (6) One (1) screw press;
- (7) One (1) enclosed shredder;
- (8) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control;
- (9) One (1) extruder, equipped with an electric heater and no control;
- (10) One (1) dewatering/vibrating tray; and
- (11) One (1) weigh hopper.

This line is equipped with an indoor vacuum vent that is run through a water recovery system to capture any exhaust.

#### Storage silos

(c) Six (6) indoor storage silos, identified as A through F, constructed in 2007, 2008, and 2010, each with a maximum loading rate of 3,330 pounds of plastic pellets per hour.

Plastic pellets from the dry and wash lines, identified as R1 and R3 are pneumatically conveyed into these storage silos.

## Unloading

- (d) One (1) railcar unloading operation, constructed in 2013, and consisting of the following:
- (1) Twelve (12) outside storage silos, identified as S1 through S12, with a combined maximum unloading rate of 26,000 pounds of plastic pellets per hour;
  - (2) One (1) pneumatic conveying system, identified as System C04, with a maximum airflow rate of 680 cubic feet per minute, equipped with an integral cyclone, identified as C2, and one (1) integral filter, identified as C4 for particulate matter control, and exhausting to the outdoors; and  
  
This system transfers the plastic pellets from the railcar to the outside storage silos.
  - (3) One (1) pneumatic conveying system, identified as System C05, with a maximum airflow rate of 270 cubic feet per minute, and equipped with an integral filter, identified as C5, and exhausting to the indoors.  
  
This system transfers the plastic pellets from the outside storage silos to the day bins associated with each blown film extrusion line.

## Blown film extrusion lines

- (e) One (1) blown film extrusion line, identified as H1, constructed in 2013, with a maximum capacity of 1,650 pounds of plastic pellets per hour, and consisting of the following:
- (1) One (1) day bin;
  - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  
  
This system transfers the plastic pellets from the day bin to H1.
  - (3) One (1) blender/extruder, equipped with an electric heater, no control, and exhausting to the indoors;
  - (4) One (1) dye unit, exhausting indoors; and
  - (5) One (1) film blower.
- (f) One (1) blown film extrusion line, identified as H2, approved for construction in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:
- (1) One (1) day bin;
  - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  
  
This system transfers the plastic pellets from the day bin to H2.
  - (3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders .

(4) One (1) dye unit, exhausting to the outdoors via side wall P2; and

(5) One (1) film blower.

(g) One (1) blown film extrusion line, identified as H3, constructed in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

(2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H3.

(3) Two (2) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the two (2) blenders/extruders .

(4) One (1) dye unit, exhausting to the outdoors via side wall P3;

(5) One (1) film blower;

(6) One (1) ozone treater;

(7) One (1) logo printer using non VOC/HAP containing inks; and

(8) One (1) laser printer using non VOC/HAP containing inks;

(h) One (1) blown film extrusion line, identified as H4, constructed in 2013, with a maximum capacity of 550 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

(2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H4.

(3) Five (5) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the five (5) blenders/extruders .

(4) One (1) dye unit, exhausting to the outdoors via side wall P4; and

(5) One (1) film blower.

- (i) One (1) blown film extrusion line, identified as H5, constructed in 2013, with a maximum capacity of 770 pounds of plastic pellets per hour, and consisting of the following:
    - (1) One (1) day bin;
    - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  

This system transfers the plastic pellets from the day bin to H5.
    - (3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors
- Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders .
- (4) One (1) dye unit, exhausting to the outdoors via side wall P5;
  - (5) One (1) film blower;
  - (6) One (1) ozone treater;
  - (7) One (1) logo printer using non VOC/HAP containing inks; and
  - (8) One (1) laser printer using non VOC/HAP containing inks;

#### Combustion units

- (j) One (1) natural gas-fired parts cleaning oven, identified as OVEN, constructed in 2013, equipped with a one (1) primary burner with a maximum heat input capacity of 0.193 MMBtu per hour and one (1) afterburner with a maximum heat input capacity of 0.305 MMBtu per hour, and exhausting to stack 3. This oven is used to remove residual plastic off of metal equipment.
- (k) One (1) natural gas-fired boiler, identified as BOILER, constructed in 2007, with a maximum heat input capacity of 1.43 MMBtu per hour, and exhausting to stack 2.
- (l) Six (6) natural gas-fired heaters, identified as 1, 3, L, 4b, 6, and 7, constructed in 1976, each with a maximum heat input capacity of 0.40 MMBtu per hour, and exhausting to stacks 1, 3, L, 4b, 6, and 7.
- (m) Two (2) natural gas-fired heaters, identified as B and E, constructed in 1976, each with a maximum heat input capacity of 0.15 MMBtu per hour, and exhausting to stacks B and E.
- (n) One (1) natural gas-fired heater, identified as C, constructed in 1976, with a maximum heat input capacity of 0.07 MMBtu per hour, and exhausting to stack C.
- (o) Six (6) natural gas-fired heaters, identified as 19 through 23 and R, constructed in 1976, each with a maximum heat input capacity of 0.17 MMBtu per hour, and exhausting to stacks 19 through 23 and R.
- (p) One (1) natural gas-fired heater, identified as 4, constructed in 1976, with a maximum heat input capacity of 0.10 MMBtu per hour, and exhausting to stack 4.

## SECTION B

## GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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- (a) All terms and conditions of permits established prior to Registration No. 009-33461-00026 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this registration.

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

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

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

Indianapolis, IN 46204-2251

- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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

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

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

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

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- (a) If required by specific condition(s) in Section D of this registration, the Registrant shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this registration or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Registrant shall implement the PMPs.

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

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

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

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

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

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

**C.2 Fugitive Dust Emissions [326 IAC 6-4]**

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

**SECTION D.1**

**OPERATION CONDITIONS**

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

Dry Line - used industrial plastic bags

- (a) One (1) dry line, identified as R1, constructed in 2007, with a maximum capacity of 3,300 pounds of used industrial plastic polyethylene bags per hour, which are recycled into pellets, and consisting of the following equipment:
  - (1) One (1) pneumatic conveying system, identified as System 01, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C1;  
  
This system transfers the plastic pellets from the Dry line to the indoor storage silos.
  - (2) One (1) enclosed shredder;
  - (3) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control, exhausting to the indoors;
  - (4) One (1) extruder, equipped with an electric heater, no control and exhausting to stack E2;
  - (5) One (1) dewatering/vibrating tray; and
  - (6) One (1) weigh hopper.

Wash Line - post consumer plastic bags

- (b) One (1) wash line, identified as R3, constructed in 2011, with a maximum capacity of 1,210 pounds of post consumer polyethylene plastic bags per hour, which are recycled into pellets, and consisting of the following equipment:
  - (1) Two (2) enclosed grinders;
  - (2) One (1) pneumatic conveying system, identified as System 03 with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C3;  
  
This system transfers the plastic pellets from the Wash line to the indoor storage silos.
  - (3) Two (2) turbo washers using water;
  - (4) One (1) wash tank using water;
  - (5) One (1) rinse tank using water;
  - (6) One (1) screw press;
  - (7) One (1) enclosed shredder;
  - (8) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control;
  - (9) One (1) extruder, equipped with an electric heater and no control;

(10) One (1) dewatering/vibrating tray; and

(11) One (1) weigh hopper.

This line is equipped with an indoor vacuum vent that is run through a water recovery system to capture any exhaust.

#### Storage silos

(c) Six (6) indoor storage silos, identified as A through F, constructed in 2007, 2008, and 2010, each with a maximum loading rate of 3,330 pounds of plastic pellets per hour.

Plastic pellets from the dry and wash lines, identified as R1 and R3 are pneumatically conveyed into these storage silos.

#### Unloading

(d) One (1) railcar unloading operation, constructed in 2013, and consisting of the following:

(1) Twelve (12) outside storage silos, identified as S1 through S12, with a combined maximum unloading rate of 26,000 pounds of plastic pellets per hour;

(2) One (1) pneumatic conveying system, identified as System C04, with a maximum airflow rate of 680 cubic feet per minute, equipped with an integral cyclone, identified as C2, and one (1) integral filter, identified as C4 for particulate matter control, and exhausting to the outdoors; and

This system transfers the plastic pellets from the railcar to the outside storage silos.

(3) One (1) pneumatic conveying system, identified as System C05, with a maximum airflow rate of 270 cubic feet per minute, and equipped with an integral filter, identified as C5, and exhausting to the indoors.

This system transfers the plastic pellets from the outside storage silos to the day bins associated with each blown film extrusion line.

#### Blown film extrusion lines

(e) One (1) blown film extrusion line, identified as H1, constructed in 2013, with a maximum capacity of 1,650 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

(2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H1.

(3) One (1) blender/extruder, equipped with an electric heater, no control, and exhausting to the indoors;

(4) One (1) dye unit, exhausting indoors; and

(5) One (1) film blower.

(f) One (1) blown film extrusion line, identified as H2, approved for construction in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

(2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H2.

(3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders .

(4) One (1) dye unit, exhausting to the outdoors via side wall P2; and

(5) One (1) film blower.

(g) One (1) blown film extrusion line, identified as H3, constructed in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

(2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H3.

(3) Two (2) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the two (2) blenders/extruders .

(4) One (1) dye unit, exhausting to the outdoors via side wall P3;

(5) One (1) film blower;

(6) One (1) ozone treater;

(7) One (1) logo printer using non VOC/HAP containing inks; and

(8) One (1) laser printer using non VOC/HAP containing inks;

(h) One (1) blown film extrusion line, identified as H4, constructed in 2013, with a maximum capacity of 550 pounds of plastic pellets per hour, and consisting of the following:

(1) One (1) day bin;

- (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H4.

- (3) Five (5) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the five (5) blenders/extruders .

- (4) One (1) dye unit, exhausting to the outdoors via side wall P4; and

- (5) One (1) film blower.

- (i) One (1) blown film extrusion line, identified as H5, constructed in 2013, with a maximum capacity of 770 pounds of plastic pellets per hour, and consisting of the following:

- (1) One (1) day bin;

- (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H5.

- (3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders .

- (4) One (1) dye unit, exhausting to the outdoors via side wall P5;

- (5) One (1) film blower;

- (6) One (1) ozone treater;

- (7) One (1) logo printer using non VOC/HAP containing inks; and

- (8) One (1) laser printer using non VOC/HAP containing inks;

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

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

#### D.1.1 Prevention of Significant Deterioration (PSD) Limits [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Registrant shall comply with the following:

- (a) The PM, PM10, and PM2.5 emissions from the following units shall not exceed the emission limits listed in the table below:

Unit Description	Control ID	PM Emission Limit (lbs/hr)	PM10 Emission Limit (lbs/hr)	PM2.5 Emission Limit (lbs/hr)
System 01	Filter (C1)	0.07	0.07	0.07
System 03	Filter (C3)	0.07	0.07	0.07
System 04	Cyclone (C2) and Filter (C4)	0.12	0.12	0.12
System 05	(C5)	0.46	0.46	0.46
System 06	(C6)	0.35	0.35	0.35

Compliance with these limits, combined with the potential to emit PM, PM10, and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM, PM10, and PM2.5 to less than 250 tons per 12 consecutive month period, each and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

#### D.1.2 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the compactor/cutter of R1 shall not exceed 5.73 pounds per hour when operating at a process weight rate of 1.65 tons per hour.

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

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

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

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

- (b) Pursuant to 6-3-1(b)(14), the potential emissions from the compactor/cutter of R3 shall be less than 0.551 pounds per hour.

#### D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Registrant's obligation with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]**

**D.1.4 Particulate Control**

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- (a) In order to comply with Condition D.1.1, the integral cyclone and filters for particulate control shall be in operation and control emissions at all times when pneumatically transferring the plastic pellets.
  
- (b) In order to comply with Condition D.1.2, the filters socks for particulate control shall be in operation and control emissions from the compactors/cutters of R1 and R3 at all times the compactors/cutters of R1 and R3 are in operation.

## SECTION D.2

## OPERATION CONDITIONS

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

Combustion units

- (j) One (1) natural gas-fired parts cleaning oven, identified as OVEN, constructed in 2013, equipped with a one (1) primary burner with a maximum heat input capacity of 0.193 MMBtu per hour and one (1) afterburner with a maximum heat input capacity of 0.305 MMBtu per hour, and exhausting to stack 3. This oven is used to remove residual plastic off of metal equipment.
- (k) One (1) natural gas-fired boiler, identified as BOILER, constructed in 2007, with a maximum heat input capacity of 1.43 MMBtu per hour, and exhausting to stack 2.

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

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

#### D.2.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2 (Incinerators), the natural gas-fired parts cleaning oven, identified as OVEN shall:

- (a) Consist of primary and secondary chambers or the equivalent;
- (b) Be equipped with a primary burner unless burning wood products;
- (c) Comply with 326 IAC 5-1 and 326 IAC 2;
- (d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and
- (e) Not emit particulate matter in excess of one (1) of the following:
  - (1) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
  - (2) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.
- (f) If any of the requirements of (a) through (e) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

The Registrant operating the incinerator must make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.2.2 Carbon Monoxide Emission Limits [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Registrant shall not operate natural gas-fired parts cleaning oven, identified as OVEN, unless the waste gas stream is burned in one of the following:

- (a) Direct-flame afterburner; or
- (b) Secondary chamber.

D.2.3 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Limitations for Sources of Indirect Heating), particulate emissions from the natural gas-fired boiler, identified as BOILER shall in no case exceed 0.6 pounds per MMBtu heat input.

D.2.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any control device. Section B - Preventive Maintenance Plan contains the Registrant's obligation with regard to the preventive maintenance plan required by this condition.

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

**REGISTRATION  
ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	Petoskey Plastics, Inc.
<b>Address:</b>	1100 West Grant Street
<b>City:</b>	Hartford City, Indiana 47348
<b>Phone Number:</b>	(765) 348-9808
<b>Registration No.:</b>	009-33461-00026

I hereby certify that Petoskey Plastics, Inc. is:

still in operation.

I hereby certify that Petoskey Plastics, Inc. is:

no longer in operation.

in compliance with the requirements of Registration No. 009-33461-00026.

not in compliance with the requirements of Registration No. 009-33461-00026.

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

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

<b>Noncompliance:</b>

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

Technical Support Document (TSD) for Registration

<b>Source Description and Location</b>
--

<b>Source Name:</b>	<b>Petoskey Plastics, Inc.</b>
<b>Source Location:</b>	<b>1100 West Grant Street, Hartford City, Indiana 47348</b>
<b>County:</b>	<b>Blackford</b>
<b>SIC Code:</b>	<b>3081 (Unsupported Plastics Film and Sheet)</b>
<b>Registration No.:</b>	<b>R 009-33461-00026</b>
<b>Permit Reviewer:</b>	<b>Brian Williams</b>

On July 24, 2013, the Office of Air Quality (OAQ) received an application from Petoskey Plastics, Inc. related to the construction and operation of a stationary source that recycles polyethylene plastic bags into pellets that are extruded and reprocessed into plastic bags and/or sheeting.

<b>Existing Approvals</b>
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There have been no previous approvals issued to this source.

<b>County Attainment Status</b>
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The source is located in Blackford 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. Blackford 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>**  
 Blackford 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  
Blackford County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### **Fugitive Emissions**

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

### **Background and Description of Emission Units and Pollution Control Equipment**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Petoskey Plastics, Inc. on July 24, 2013, relating to the construction and operation of a stationary source that recycles polyethylene plastic bags into pellets that are extruded and reprocessed into plastic bags and/or sheeting.

The following is a list of the new emission units and pollution control devices:

- (a) One (1) blown film extrusion line, identified as H2, approved for construction in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:
- (1) One (1) day bin;
  - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  
  
This system transfers the plastic pellets from the day bin to H2.
  - (3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting the indoors;  
  
Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders.
  - (4) One (1) dye unit, exhausting to the outdoors via side wall P2; and
  - (5) One (1) film blower.

### **Unpermitted Emission Units and Pollution Control Equipment**

The source consists of the following unpermitted emission units:

Dry Line - used industrial plastic bags

- (a) One (1) dry line, identified as R1, constructed in 2007, with a maximum capacity of 3,300 pounds of used industrial plastic polyethylene bags per hour, which are recycled into pellets, and consisting of the following equipment:
- (1) One (1) pneumatic conveying system, identified as System 01, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C1;  
  
This system transfers the plastic pellets from the Dry line to the indoor storage silos.
  - (2) One (1) enclosed shredder;

- (3) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control, exhausting to the indoors;
- (4) One (1) extruder, equipped with an electric heater, no control and exhausting to stack E2;
- (5) One (1) dewatering/vibrating tray; and
- (6) One (1) weigh hopper.

#### Wash Line - post consumer plastic bags

- (b) One (1) wash line, identified as R3, constructed in 2011, with a maximum capacity of 1,210 pounds of post consumer polyethylene plastic bags per hour, which are recycled into pellets, and consisting of the following equipment:
  - (1) Two (2) enclosed grinders;
  - (2) One (1) pneumatic conveying system, identified as System 03 with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C3;  
  
This system transfers the plastic pellets from the Wash line to the indoor storage silos.
  - (3) Two (2) turbo washers using water;
  - (4) One (1) wash tank using water;
  - (5) One (1) rinse tank using water;
  - (6) One (1) screw press;
  - (7) One (1) enclosed shredder;
  - (8) One (1) compactor/cutter, equipped with a dry filter sock for particulate matter control;
  - (9) One (1) extruder, equipped with an electric heater and no control;
  - (10) One (1) dewatering/vibrating tray; and
  - (11) One (1) weigh hopper.

This line is equipped with an indoor vacuum vent that is run through a water recovery system to capture any exhaust.

#### Storage silos

- (c) Six (6) indoor storage silos, identified as A through F, constructed in 2007, 2008, and 2010, each with a maximum loading rate of 3,330 pounds of plastic pellets per hour.  
  
Plastic pellets from the dry and wash lines, identified as R1 and R3 are pneumatically conveyed into these storage silos.

#### Unloading

- (d) One (1) railcar unloading operation, constructed in 2013, and consisting of the following:

- (1) Twelve (12) outside storage silos, identified as S1 through S12, with a combined maximum unloading rate of 26,000 pounds of plastic pellets per hour;
- (2) One (1) pneumatic conveying system, identified as System C04, with a maximum airflow rate of 680 cubic feet per minute, equipped with an integral cyclone, identified as C2, and one (1) integral filter, identified as C4 for particulate matter control, and exhausting to the outdoors; and

This system transfers the plastic pellets from the railcar to the outside storage silos.

- (3) One (1) pneumatic conveying system, identified as System C05, with a maximum airflow rate of 270 cubic feet per minute, and equipped with an integral filter, identified as C5, and exhausting to the indoors.

This system transfers the plastic pellets from the outside storage silos to the day bins associated with each blown film extrusion line.

#### Blown film extrusion lines

- (e) One (1) blown film extrusion line, identified as H1, constructed in 2013, with a maximum capacity of 1,650 pounds of plastic pellets per hour, and consisting of the following:

- (1) One (1) day bin;
- (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H1.

- (3) One (1) blender/extruder, equipped with an electric heater, no control, and exhausting to the indoors;
- (4) One (1) dye unit, exhausting indoors; and
- (5) One (1) film blower.

- (f) One (1) blown film extrusion line, identified as H3, constructed in 2013, with a maximum capacity of 495 pounds of plastic pellets per hour, and consisting of the following:

- (1) One (1) day bin;
- (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;

This system transfers the plastic pellets from the day bin to H3.

- (3) Two (2) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;

Note: The capacity of the blown film extrusion line is based on the maximum capacity of the two (2) blenders/extruders.

- (4) One (1) dye unit, exhausting to the outdoors via side wall P3;

- (5) One (1) film blower;
  - (6) One (1) ozone treater;
  - (7) One (1) logo printer using non VOC/HAP containing inks; and
  - (8) One (1) laser printer using non VOC/HAP containing inks;
- (g) One (1) blown film extrusion line, identified as H4, constructed in 2013, with a maximum capacity of 550 pounds of plastic pellets per hour, and consisting of the following:
- (1) One (1) day bin;
  - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  
  
This system transfers the plastic pellets from the day bin to H4.
  - (3) Five (5) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors;  
  
Note: The capacity of the blown film extrusion line is based on the maximum capacity of the five (5) blenders/extruders.
  - (4) One (1) dye unit, exhausting to the outdoors via side wall P4; and
  - (5) One (1) film blower.
- (h) One (1) blown film extrusion line, identified as H5, constructed in 2013, with a maximum capacity of 770 pounds of plastic pellets per hour, and consisting of the following:
- (1) One (1) day bin;
  - (2) One (1) pneumatic conveying system, identified as System 06, with a maximum airflow rate of 414 cubic feet per minute, and equipped with an integral filter, identified as C6, and exhausting to the indoors;  
  
This system transfers the plastic pellets from the day bin to H5.
  - (3) Three (3) blenders/extruders, equipped with an electric heater, no control, and exhausting to the indoors  
  
Note: The capacity of the blown film extrusion line is based on the maximum capacity of the three (3) blenders/extruders.
  - (4) One (1) dye unit, exhausting to the outdoors via side wall P5;
  - (5) One (1) film blower;
  - (6) One (1) ozone treater;
  - (7) One (1) logo printer using non VOC/HAP containing inks; and
  - (8) One (1) laser printer using non VOC/HAP containing inks;

#### Combustion units

- (i) One (1) natural gas-fired parts cleaning oven, identified as OVEN, constructed in 2013, equipped with a one (1) primary burner with a maximum heat input capacity of 0.193 MMBtu per hour and one (1) afterburner with a maximum heat input capacity of 0.305 MMBtu per hour, and exhausting to stack 3. This oven is used to remove residual plastic off of metal equipment.
- (j) One (1) natural gas-fired boiler, identified as BOILER, constructed in 2007, with a maximum heat input capacity of 1.43 MMBtu per hour, and exhausting to stack 2.
- (k) Six (6) natural gas-fired heaters, identified as 1, 3, L, 4b, 6, and 7, constructed in 1976, each with a maximum heat input capacity of 0.40 MMBtu per hour, and exhausting to stacks 1, 3, L, 4b, 6, and 7.
- (l) Two (2) natural gas-fired heaters, identified as B and E, constructed in 1976, each with a maximum heat input capacity of 0.15 MMBtu per hour, and exhausting to stacks B and E.
- (m) One (1) natural gas-fired heater, identified as C, constructed in 1976, with a maximum heat input capacity of 0.07 MMBtu per hour, and exhausting to stack C.
- (n) Six (6) natural gas-fired heaters, identified as 19 through 23 and R, constructed in 1976, each with a maximum heat input capacity of 0.17 MMBtu per hour, and exhausting to stacks 19 through 23 and R.
- (o) One (1) natural gas-fired heater, identified as 4, constructed in 1976, with a maximum heat input capacity of 0.10 MMBtu per hour, and exhausting to stack 4.

<b>“Integral Part of the Process” Determination</b>
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The applicant has submitted the following information to justify why the filters and cyclone associated with the pneumatic conveying systems and plastic pellet unloading operation should be considered an integral part of the plastic recycling and pellet extrusion process.

- (a) Polyethylene pellets (1/16 - 1/8 inch or 1588-3175 microns in diameter) are pneumatically conveyed throughout the facility. Each pneumatic conveying system is equipped with a filter before the vacuum pump to ensure the pumps can properly convey the pellets. Without the filters, the pumps would clog and quickly fail. The facility has eight vacuum pumps and each pump costs \$11,850. The facility estimates the cost of production down-time at \$500/hr/line. The capital cost of the filters is approximately \$1,000 and the cost of operating and maintaining the filters is about \$150 per year. Thus, the economic benefit of the filters far outweighs their cost.
- (b) The raw plastic pellets are brought into the facility via railcar and unloaded into the outside storage silos (S1 through S12) through a pneumatic conveying system equipped with cyclone that has a total control efficiency of 88.3%, but is 100% efficient for particles greater than 100 micron in size. Without the cyclone the pellets would not be separated from the air stream and would not reach the storage silos.

IDEM, OAQ has evaluated the information submitted and agrees that the filters and cyclone should be considered an integral part of the pneumatic conveying systems and plastic pellet unloading operation. This determination is based on the fact that processes cannot operate without the filters and cyclone and the filters provide an economic benefit to the source. Therefore, the permitting level and state rule applicability will be determined using the potential to emit after the filters and cyclone. The applicability of 326 IAC 2-2 (Prevention of Significant Deterioration(PSD)) will be determined before control. Operating conditions in the proposed permit will specify that the filters and cyclone shall operate at all times when the pneumatic conveying systems and plastic pellet unloading operation are in operation.

**Enforcement Issues**

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

**Emission Calculations**

See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination – Registration**

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e**	Total HAPs	Worst Single HAP
PPE Recycle Dry Line (R1) Compactor/Cutter	2.87	2.87	2.87	0	0	0	0	0	0	0
PPE Recycle Wash Line (R3) Compactor/Cutter	1.05	1.05	1.05	0	0	0	0	0	0	0
PPE Recycle Dry Line (R1) Extrusion	0.87	0.87	0.87	0	0	0.29	0	0	0.007	0.003 Form- aldehyde
PPE Recycle Wash Line (R3) Extrusion	0.32	0.32	0.32	0	0	0	0	0	0.002	0.001 Form- aldehyde
System 01 (C1)***	0.31	0.31	0.31	0	0	0	0	0	0	0
System 03 (C3)***	0.31	0.31	0.31	0	0	0	0	0	0	0
System 04 (C4)***	0.51	0.51	0.51	0	0	0	0	0	0	0
System 05 (C5)***	2.03	2.03	2.03	0	0	0	0	0	0	0
System 06 (C6)***	1.55	1.55	1.55	0	0	0	0	0	0	0
PPE Blown Film Line (H1 - H5)	0.43	0.43	0.43	0	0	0.25	0	0	0.005	0.002 Form- aldehyde
Heat Cleaning Oven	0.05	0.05	0.05	0.03	0.25	0.05	0.03	0	0	0
Natural Gas Combustion	0.05	0.19	0.19	0.01	2.50	0.14	2.10	3,016	0.047	0.045 Hexane
Paved Roads	1.85	0.37	0.09	0	0	0	0	0	0	0
<b>Total PTE of Entire Source</b>	<b>12.20</b>	<b>10.86</b>	<b>10.58</b>	<b>0.04</b>	<b>2.75</b>	<b>0.72</b>	<b>2.12</b>	<b>3,016</b>	<b>0.06</b>	<b>0.045 Hexane</b>
Exemptions Levels**	< 5	< 5	< 5	< 10	< 10	< 10	< 25	< 100,000	< 25	< 10
Registration Levels**	< 25	< 25	< 25	< 25	< 25	< 25	< 100	< 100,000	< 25	< 10

negl. = negligible

\*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a regulated air pollutant".

\*\*The 100,000 CO<sub>2</sub>e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

\*\*\*IDEM has determined the filters and cyclone are integral to the process. Therefore, the controlled emissions will be used for permit level and state rule applicability determination.

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM, PM10, and PM2.5 are within the ranges listed in 326 IAC 2-5.1-2(a)(1). The PTE of all other regulated criteria pollutants are less than the ranges listed in 326 IAC 2-5.1-2(a)(1). Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 (Registrations). A Registration will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE 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 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

**Permit Level Determination – PSD**

IDEM must evaluate the applicability of 326 IAC 2-2 (PSD) using the uncontrolled potential to emit. Based on the calculations in Appendix A, the source-wide total potential to emit PM, PM10, and PM2.5 before control is greater than 250 tons per year each. However, this existing source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit PM, PM10, and PM2.5 will be limited to less than 250 tons per year, the potential to emit all other attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than the PSD subject to regulation threshold of one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year, 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.

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

- (1) The PM, PM10, and PM2.5 emissions from the following units shall not exceed the emission limits listed in the table below:

Unit Description	Control ID	PM Emission Limit (lbs/hr)	PM10 Emission Limit (lbs/hr)	PM2.5 Emission Limit (lbs/hr)
System 01	Filter (C1)	0.07	0.07	0.07
System 03	Filter (C3)	0.07	0.07	0.07
System 04	Cyclone (C2) and Filter (C4)	0.12	0.12	0.12
System 05	(C5)	0.46	0.46	0.46
System 06	(C6)	0.35	0.35	0.35

Compliance with these limits, combined with the potential to emit PM, PM10, and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM, PM10, and PM2.5 to less than 250 tons per 12 consecutive month period, each, and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

**Federal Rule Applicability Determination**

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc (326 IAC 12), are not included in this registration because the maximum design heat input capacity of the natural gas-fired boiler is less

- than 10 MMBtu/hr.
- (b) The requirements of the New Source Performance Standard for VOC Emissions from the Polymer Industry, 40 CFR 60, Subpart DDD (326 IAC 12), are not included in the registration, since this source does not manufacture polypropylene, polyethylene, polystyrene, or poly (ethyleneterephthalate), as defined in 40 CFR 60.561. This source manufactures plastic bags and/or sheeting from purchased plastic resin pellets and recycled polyethylene plastic bags under SIC Code 3089, and does not manufacture synthetic resins through predominantly chemical processes (e.g., SIC Codes 2821 and 2824).
- (c) The requirements of the following New Source Performance Standards (NSPS) are not included in the permit, because the parts cleaning oven, which was constructed in 2013, is not considered a municipal waste combustor or hospital/medical/infectious waste incinerator:
- (1) 40 CFR Part 60, Subpart E, Standards of Performance for Incinerators (326 IAC 12).
  - (2) 40 CFR Part 60, Subpart Ea, Standards of Performance for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994 (326 IAC 12).
  - (3) 40 CFR Part 60, Subpart Eb, Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996 (326 IAC 12).
  - (4) 40 CFR Part 60, Subpart Ec, Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996 (326 IAC 12).
  - (5) 40 CFR Part 60, Subpart AAAA, Standards of Performance for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001 (326 IAC 12).
  - (6) 40 CFR Part 60, Subpart BBBB, Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or Before August 30, 1999 (326 IAC 12).
- (d) The requirements of the New Source Performance Standards for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001, 40 CFR Part 60, Subpart CCCC (326 IAC 12) are not included in this registration because the parts cleaning oven does not meet the definition of a commercial and industrial solid waste incineration (CISWI) unit. Pursuant to 40 CFR 60.2265, this unit meets the definition of a part reclamation unit and burn-off oven. This rule only applies to incinerators, waste-burning kilns, energy recovery units, and small, remote incinerators.
- (e) The requirements of the New Source Performance Standards for Other Solid Waste Incineration Units for Which Construction Is Commenced After December 9, 2004 or for Which Modification or Reconstruction Is Commenced on or After June 16, 2006, 40 CFR Part 60, Subpart EEEE (326 IAC 12) are not included in this registration because the parts cleaning oven does not meet the definition of a small municipal waste combustion unit or institutional waste incineration unit as defined in 40 CFR 60.2977.
- (f) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

- (a) 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 registration for the parts cleaning oven because it does not meet the definition of a hazardous waste incinerator and the source is not a major source for HAPs.
- (b) The natural gas-fired boiler is not subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (40 CFR Part 63, Subpart JJJJJJ), because pursuant to 40 CFR 63.11195(e), natural gas-fired boilers are exempt from the requirements of this NESHAP.
- (c) 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)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, 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.

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

- (a) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
PSD applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (a) 326 IAC 2-5.1-2 (Registrations)  
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The 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.
- (c) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)  
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
  - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- (e) 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.
- (f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)  
Each of the emission units at this source is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each emission unit is less than twenty-five (25) tons per year.
- (h) 326 IAC 12 (New Source Performance Standards)  
See Federal Rule Applicability Section of this TSD.
- (i) 326 IAC 20 (Hazardous Air Pollutants)  
See Federal Rule Applicability Section of this TSD.

#### Dry Line (R1)

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the compactor/cutter shall not exceed 5.73 pounds per hour when operating at a process weight rate of 1.65 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

Based on calculations in Appendix A, the filter sock is not needed to comply with this limit, but the source is using a source specific emission factor to determine the potential to emit particulate matter. Therefore, the filter sock shall be in operation at all times the compactor/cutter is in operation, in order to comply with this limit.

- (b) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the extruder is exempt from the requirements of 326 IAC 6-3-2 because the unlimited potential to emit particulate matter is less than 0.551 pounds per hour.

#### Wash Line (R3)

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the compactor/cutter and extruder are exempt from the requirements of 326 IAC 6-3-2 because the unlimited potential to emit particulate matter is less than 0.551 pounds per hour, each.

The source is using a source specific emission factor to determine the potential to emit particulate matter. Therefore, the filter sock shall be in operation at all times the compactor/cutter is in operation, in order to ensure the emissions are less than 0.551 pounds per hour.

#### Blown Film Extrusion Lines (H1 - H5)

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the blown film extrusion lines (H1 - H5) are exempt from the requirements of 326 IAC 6-3-2 because the unlimited potential to emit particulate matter is less than 0.551 pounds per hour, each.

#### Railcar Unloading Operation, Storage Silos (A -F and 1 - 12), and Pneumatic Conveying Systems

- (a) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the six (6) indoor storage silos, twelve (12) outside storage silos and associated pneumatic conveying systems (Systems 01, 03, 04, 05, and 06) are exempt from the requirements of 326 IAC 6-3-2 because the potential to emit particulate matter after the integral filters is less than 0.551 pounds per hour, each.

Based on calculations in Appendix A, the controlled potential to emit is less than 0.551 pounds per hour. However, since the filters are integral to the process each filter shall be in operation at all times when pneumatically transferring the pellets, in order to ensure the emissions are less than 0.551 pounds per hour, each.

#### Parts Cleaning Oven

- (a) 326 IAC 4-2-2 (Incinerators)  
The natural gas-fired parts cleaning oven is used to remove residual plastic from metal equipment. The plastic is considered a solid waste. Therefore, the parts cleaning oven is subject to the requirements of 326 IAC 4-2-1 because this oven meets the definition of an incinerator provided in 326 IAC 1-2-34 and is not subject to any of the rules identified in 326 IAC 4-2-1(b)(2).

Pursuant to 326 IAC 4-2, the natural gas-fired parts cleaning oven shall:

- (1) Consist of primary and secondary chambers or the equivalent;
- (2) Be equipped with a primary burner unless burning 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 326 IAC 4-2-2(c); and
- (5) Not emit particulate matter in excess of one (1) of the following:
  - (A) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
  - (B) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.
- (6) If any requirements of 326 IAC 4-2-2(a)(1) through 326 IAC 4-2-2(a)(5) above are not met, the source shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

- (b) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
The natural gas-fired parts cleaning oven is not subject to the requirements of 326 IAC 6-3 because, pursuant to 326 IAC 6-3-1(b)(2), incinerators are exempt.
- (c) 326 IAC 9-1-2 (Carbon Monoxide Emission Limits)  
The natural gas-fired parts cleaning oven, which is considered a refuse incineration and refuse burning equipment is subject to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits) because this unit is a stationary source of carbon monoxide constructed after March 21, 1972 and subject to the requirements of 326 IAC 9-1-2(a)(3).

Pursuant to 326 IAC 9-1-2(a)(3) (Carbon Monoxide Emission Limits), the source shall not operate the parts cleaning oven unless the waste gas stream is burned in one (1) of the following:

- (1) Direct-flame afterburner; or
- (2) Secondary chamber.

Note: The parts cleaning oven is equipped with an afterburner. Therefore, compliance with 326 IAC 9-1-2(a)(3) is expected.

#### Natural Gas Combustion

- (a) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)  
The natural gas-fired boiler is subject to 326 IAC 6-2-4 because the boiler was constructed after September 21, 1983.

Pursuant to 326 IAC 6-2-4, particulate emissions from indirect heating facilities, which were constructed after September 21, 1983, with a total source operating capacity less than 10 MMBtu/hr, shall not exceed 0.6 lb/MMBtu heat input.

Note: The total source operating capacity is 1.43 MMBtu/hr.

Based on the calculations below, the boiler can comply with this limit.

When burning natural gas:

$$\text{PM Emissions} = 1.9 \text{ lb PM/MMSCF} * \text{MMSCF}/1,020 \text{ MMBtu} = 0.0019 \text{ lbs/MMBtu}$$

- (b) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)  
The natural gas-fired 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.
- (c) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
The natural gas-fired combustion units 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.
- (d) 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)  
This source is not subject to 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations) because the potential to emit sulfur dioxide from each natural gas-fired combustion unit is less than twenty-five (25) tons per year and ten (10) pounds per hour.

### Testing Requirements

The source is using emission factors from the technical paper "Development of Emissions Factors for Polyethylene Processing" from the Journal of the Air and Waste Management Association: (Volume 46, June 1996) to determine the potential emissions from the extruders. IDEM has reviewed this paper and has determined testing is not required since no emission factors are available in US EPA's AP-42. IDEM has previously accepted these emission factors at other permitted plastic extruding sources without requiring additional testing.

The source determined the potential emissions from the compactor/cutters associated with lines R1 and R3 by performing a mass balance study at the source. IDEM has reviewed the data and determined no additional testing is required for these units.

The source determined the potential emissions from the pneumatic conveying of polyethylene pellets using the control specifications provided by the manufacturer. IDEM has reviewed the data and determined no additional testing is required for these units.

### Conclusion and Recommendation

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

The construction and operation of this source shall be subject to the conditions of the attached proposed Registration No. 009-33461-00026. The staff recommends to the Commissioner that this Registration be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brian Williams at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5375 or toll free at 1-800-451-6027 extension 4-5375.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.in.gov/idem](http://www.in.gov/idem)

**Appendix A: Emissions Calculations**  
**Polypropylene Recycling Dry and Wash Lines (R1 and R3)**  
**Compactors/Cutters**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

Process	Maximum Throughput (lb/hr)	Maximum Throughput (million lb/hr)	Particulate Matter Emission Factor (lb/million lb)*	Potential Particulate (lb/hr)	Potential Particulate (ton/yr)
Compactor/Cutter of R1	3,300	0.0033	198.81	0.66	2.87
Compactor/Cutter of R3	1,210	0.0012	198.81	0.24	1.05

**Methodology**

\* Particulate Matter Emission Factor provided by source and based on mass balance study conducted at the source. The source operated the cutter at a 3,018 pounds per hour for 10 hours. During this time they collected 3 pounds of particulate in the filter sock. Filter sock is at least 50% efficient at collecting 100 micron sized particles.

Maximum Throughput (million lb/hr) = Maximum Throughput (lb/hr) / 10<sup>6</sup>

Particulate Matter Emission Factor (lb/million lb) = Amount Collected (3 lbs) / Total Material Processed for 10 hours (30180 lbs) x 10<sup>6</sup> / Control Efficiency (50%)

Potential Particulate (lb/hr) = Maximum Throughput (million lb/hr) x Emission Factor (lb/million lb)

Potential Particulate (ton/yr) = Potential Particulate (lb/hr) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

Assumes PM10 and PM2.5 are equal to PM

Shredder and grinders are enclosed on R1 and R3, so the potential emissions are negligible.

**Appendix A: Emissions Calculations  
Polypropylene Recycling Dry and Wash Lines (R1 and R3)  
Extrusion - PM & VOC**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

Process	Maximum Throughput (lb/hr)	PM/PM10/PM2.5			VOC		
		Emission Factor (lb/million lb)*	PTE (lbs/hr)	PTE (tons/yr)	Emission Factor (lb/million lb)	PTE (lbs/hr)	PTE (tons/yr)
Extruder of R1	3,300	59.9	0.20	0.87	19.9	0.07	0.29
Extruder of R3	1,210	59.9	0.07	0.32	19.9	0.02	0.11

**Methodology**

\*Emission factors for polyethylene pellets based on a Technical Paper done by the Journal of the Air and Waste Management Association: Development of Emissions Factors for Polyethylene Processing (Volume 46, June 1996).

\*Emission factors are temperature dependent and are based on operations of 500 degrees F melt temperature, actual temperatures vary from 200-500 degrees F through extruder. LLDPE Blown Film processing at 500 degrees F emission factors were used to be conservative.

PTE (lbs/hr) = Maximum Throughput (lb/hr) / 10<sup>6</sup> x EF (lb/million lb)

PTE (tons/yr) = PTE (lbs/hr) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations**  
**Polypropylene Recycling Dry and Wash Lines (R1 and R3)**  
**Extrusion - HAPs**

**Company Name: Petoskey Plastics, Inc.**  
**Address City IN Zip: 1100 West Grant Street, Hartford City, Indiana 47348**  
**Permit Number: 009-33461-00026**  
**Reviewer: Brian Williams**

Process	Maximum Throughput (lb/hr)	Emission Factors (lb/million lb)*					HAP Emissions (tons/yr)					
		Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Total HAPs
Extruder of R1	3,300	0.2	0.02	0.16	0.05	0.02	0.0029	0.0003	0.0023	0.0007	0.0003	0.0065
Extruder of R3	1,210	0.2	0.02	0.16	0.05	0.02	0.0011	0.0001	0.0008	0.0003	0.0001	0.0024

**Methodology**

\*Emission factors for polyethylene pellets based on a Technical Paper done by the Journal of the Air and Waste Management Association: Development of Emissions Factors for Polyethylene Processing (Volume 46, June 1996).

\*Emission factors are temperature dependent and are based on operations of 500 degrees F melt temperature, actual temperatures vary from 200-500 degrees F through extruder. LLDPE Blown Film processing at 500 degrees F emission factors were used to be conservative.

PTE (tons/yr) = Maximum Throughput (lb/hr) / 10<sup>6</sup> x EF (lb/million lb) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations  
Polypropylene Storage Silos and Pneumatic Conveying Systems**

**Company Name: Petoskey Plastics, Inc.  
Address City IN Zip: 1100 West Grant Street, Hartford City, Indiana 47348  
Permit Number: 009-33461-00026  
Reviewer: Brian Williams**

Emission Unit Description	Air Flow (scfm)	Uncontrolled Emission Factor (gr/scf)*	Controlled Emission Factor (grain/scf)**	Uncontrolled Particulate Matter Emissions (lb/hr)	Uncontrolled Particulate Matter Emissions (ton/year)	Controlled Particulate Matter Emissions (lb/hr)	Controlled Particulate Matter Emissions (ton/year)
System 01 (C1) Pellet Transfer from R1 to A-F Silos***	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 03 (C3) Pellet Transfer from R3 to A-F Silos***	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 04 (C4) Pellet Transfer from Railcar to S1-S12	680.00	20.00	0.02	116.57	510.58	0.12	0.51
System 05 (C5) Pellet Transfer from Silos S1-S12 to Day Bins****	270.00	20.00	0.20	46.29	202.73	0.46	2.03
System 06 (C6) Pellet Transfer from Day Bin to H1	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 06 (C6) Pellet Transfer from Day Bin to H2	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 06 (C6) Pellet Transfer from Day Bin to H3	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 06 (C6) Pellet Transfer from Day Bin to H4	414.00	20.00	0.02	70.97	310.85	0.07	0.31
System 06 (C6) Pellet Transfer from Day Bin to H5	414.00	20.00	0.02	70.97	310.85	0.07	0.31
			<b>Total</b>		<b>2,889.30</b>		<b>4.71</b>

**Methodology**

Pellets are pneumatically conveyed at all times in each system. All systems are equipped with cartridge filters before the vacuum pumps. System 04 is equipped with a cyclone (C2) to recover the pellets and ensure the vacuum pumps can properly convey the pellets. IDEM has determined the filters and cyclone are integral to the process. Therefore, the controlled emissions will be used for permit level and state rule applicability determination.

\*The emissions are based on a conservative estimate of 20 grain/scf before controls of fine particulate and the air flow through the system.

\*\*Emission factor from Ktron (filter manufacturer) assuming 99.9% efficiency of cartridge filter, dust particle greater than 1.5 micron (pellets are 1/16-1/8 inch or 1588-3175 micron in diameter).

\*\*\* System 01 or 03 used to transfer pellets from silos A-F to Gaylord boxes. The Gaylord boxes are either transported to other facilities offsite or transferred via forklift over to the H1-H5 lines. So pellets cannot be loaded and unloaded from silos A-F at the same time.

\*\*\*\*System 5 has only a filter on the vacuum pump that is 99% efficient. Therefore emission factor estimated to be 0.2 grains/scf.

Uncontrolled/Controlled PM Emissions (lb/hr) = Air Flow (scfm) x Emission Factor (grain/scf) x 1/7,000 (lb/gr) x 60 (min/hr)

Uncontrolled/Controlled PM Emissions (ton/yr) = Uncontrolled/Controlled PM Emissions (lb/hr) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations  
Blown Film Extrusion Lines - H1 Through H5  
PM & VOC**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

Process	Maximum Throughput (lb/hr)	PM/PM10/PM2.5			VOC		
		Emission Factor (lb/million lb)*	PTE (lbs/hr)	PTE (tons/yr)	Emission Factor (lb/million lb)	PTE (lbs/hr)	PTE (tons/yr)
H1	1,650	24.7	0.04	0.18	14.2	0.02	0.10
H2	495	24.7	0.01	0.05	14.2	0.01	0.03
H3	495	24.7	0.01	0.05	14.2	0.01	0.03
H4	550	24.7	0.01	0.06	14.2	0.01	0.03
H5	770	24.7	0.02	0.08	14.2	0.01	0.05
				<b>0.43</b>			<b>0.25</b>

**Methodology**

\*Emission factors for polyethylene pellets based on a Technical Paper done by the Journal of the Air and Waste Management Association: Development of Emissions Factors for Polyethylene Processing (Volume 46, June 1996).

\*Emission factors are temperature dependent and are based on operations of 500 degrees F melt temperature, actual temperatures vary from 320-430 degrees F through extruder. LLDPE Blown Film processing at 450 degrees F emission factors were used to be conservative.

PTE (lbs/hr) = Maximum Throughput (lb/hr) / 10<sup>6</sup> x EF (lb/million lb)

PTE (tons/yr) = PTE (lbs/hr) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations  
Blown Film Extrusion Lines - H1 Through H5  
HAPs**

**Company Name: Petoskey Plastics, Inc.  
Address City IN Zip: 1100 West Grant Street, Hartford City, Indiana 47348  
Permit Number: 009-33461-00026  
Reviewer: Brian Williams**

Process	Maximum Throughput (lb/hr)	Emission Factors (lb/million lb)*					HAP Emissions (tons/yr)					
		Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Total HAPs
H1	1,650	0.14	0.02	0.09	0.02	0.02	0.0010		0.0007	0.0001	0.0001	0.0020
H2	495	0.14	0.02	0.09	0.02	0.02	0.0003	0.0000	0.0002	0.0000	0.0000	0.0006
H3	495	0.14	0.02	0.09	0.02	0.02	0.0003	0.0000	0.0002	0.0000	0.0000	0.0006
H4	550	0.14	0.02	0.09	0.02	0.02	0.0003	0.0000	0.0002	0.0000	0.0000	0.0007
H5	770	0.14	0.02	0.09	0.02	0.02	0.0005	0.0001	0.0003	0.0001	0.0001	0.0010
<b>Total Emissions</b>							<b>0.0024</b>	<b>0.0002</b>	<b>0.0016</b>	<b>0.0003</b>	<b>0.0003</b>	<b>0.0049</b>

**Methodology**

\*Emission factors for polyethylene pellets based on a Technical Paper done by the Journal of the Air and Waste Management Association: Development of Emissions Factors for Polyethylene Processing (Volume 46, June 1996).

\*Emission factors are temperature dependent and are based on operations of 500 degrees F melt temperature, actual temperatures vary from 200-500 degrees F through extruder. LLDPE Blown Film processing at 500 degrees F emission factors were used to be conservative.

PTE (tons/yr) = Maximum Throughput (lb/hr) / 10<sup>6</sup> x EF (lb/million lb) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations  
Heat Cleaning Oven**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

	Pollutant						
Emission Factor in lb/hr	PM	PM10	PM2.5	SO2	NOx	VOC	CO
Potential Emission in tons/yr	0.011	0.011	0.011	0.006	0.057	0.011	0.006
	0.048	0.048	0.048	0.026	0.250	0.048	0.026

**Methodology**

Emission Factors provided by oven manufacturer.

Potential Emission in tons/yr = EF (lb/hr) x 8,760 (hr/yr) x 1/2,000 (ton/lb)

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
MM BTU/HR <100**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
5.82	1020	50.0

	Pollutant						
Emission Factor in lb/MMCF	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.05	0.19	0.19	0.01	2.50	0.14	2.10

\*PM emission factor is filterable PM only. PM10 and PM2.5 emission factors are filterable and condensable PM10 and PM2.5 combined, respectively.  
\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	5.246E-05	2.998E-05	1.874E-03	4.497E-02	8.494E-05

	HAPs - Metals				
Emission Factor in lb/MMcf	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.249E-05	2.748E-05	3.498E-05	9.494E-06	5.246E-05

	Greenhouse Gas		
Emission Factor in lb/MMcf	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	2,998	5.75E-02	5.50E-02
Summed Potential Emissions in tons/yr	2,998		
CO2e Total in tons/yr	3,016		

<b>Total HAPs =</b>	<b>0.05</b>	
<b>Single HAP =</b>	<b>0.045</b>	<b>Hexane</b>

**Methodology**

All emission factors are based on normal firing.  
MMBtu = 1,000,000 Btu  
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  
The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.  
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.  
Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.  
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emission Calculations  
Fugitive Dust Emissions - Paved Roads**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

**Paved Roads at Industrial Site**

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	19.5	390.0	813	0.154	3.1	1124.0
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	19.5	390.0	813	0.154	3.1	1124.0
<b>Totals</b>			<b>40.0</b>		<b>780.0</b>			<b>6.2</b>	<b>2248.1</b>

Average Vehicle Weight Per Trip = 

19.5
------

 tons/trip  
Average Miles Per Trip = 

0.15
------

 miles/trip

Unmitigated Emission Factor, Ef =  $[k * (sL)^{0.91} * (W)^{1.02}]$  (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	19.5	19.5	19.5	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m <sup>2</sup> = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext =  $E * [1 - (p/4N)]$  (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext =  $Ef * [1 - (p/4N)]$   
where p = 

125
-----

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 

365
-----

 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	1.800	0.360	0.0883	lb/mile
Mitigated Emission Factor, Eext =	1.646	0.329	0.0808	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	1.01	0.20	0.05	0.92	0.18	0.05
Vehicle (leaving plant) (one-way trip)	1.01	0.20	0.05	0.92	0.18	0.05
<b>Totals</b>	<b>2.02</b>	<b>0.40</b>	<b>0.10</b>	<b>1.85</b>	<b>0.37</b>	<b>0.09</b>

**Methodology**

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] \* [Maximum trips per day (trip/day)]  
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] \* [Maximum one-way distance (mi/trip)]  
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]  
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]  
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Unmitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)  
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] \* [Mitigated Emission Factor (lb/mile)] \* (ton/2000 lbs)

**Abbreviations**

PM = Particulate Matter  
PM10 = Particulate Matter (<10 um)  
PM2.5 = Particle Matter (<2.5 um)  
PTE = Potential to Emit

**Appendix A: Emission Calculations  
Summary of Emissions**

**Company Name:** Petoskey Plastics, Inc.  
**Address City IN Zip:** 1100 West Grant Street, Hartford City, Indiana 47348  
**Permit Number:** 009-33461-00026  
**Reviewer:** Brian Williams

Unlimited Potential to Emit (tons/year) - Permit Level Determination											
Process	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP	
PPE Recycle Dry Line (R1) Compactor/Cutter	2.87	2.87	2.87	0	0	0	0	0	0	0	
PPE Recycle Wash Line (R3) Compactor/Cutter	1.05	1.05	1.05	0	0	0	0	0	0	0	
PPE Recycle Dry Line (R1) Extrusion	0.87	0.87	0.87	0	0	0.29	0	0	0.007	0.003	Formaldehyde
PPE Recycle Wash Line (R3) Extrusion	0.32	0.32	0.32	0	0	0	0	0	0.002	0.001	Formaldehyde
System 01 (C1)*	0.31	0.31	0.31	0	0	0	0	0	0	0	
System 03 (C3)*	0.31	0.31	0.31	0	0	0	0	0	0	0	
System 04 (C4)*	0.51	0.51	0.51	0	0	0	0	0	0	0	
System 05 (C5)*	2.03	2.03	2.03	0	0	0	0	0	0	0	
System 06 (C6)*	1.55	1.55	1.55	0	0	0	0	0	0	0	
PPE Blown Film Lines (H1 - H5) Heat Cleaning Oven	0.43	0.43	0.43	0	0	0.25	0	0	0.005	0.002	Formaldehyde
Natural Gas Combustion	0.05	0.05	0.05	0.03	0.25	0.05	0.03	0	0	0	
Paved Roads	1.85	0.37	0.09	0	0	0	0	0	0	0	Hexane
<b>Total</b>	<b>12.20</b>	<b>10.86</b>	<b>10.58</b>	<b>0.04</b>	<b>2.75</b>	<b>0.72</b>	<b>2.12</b>	<b>3.016</b>	<b>0.06</b>	<b>0.045</b>	<b>Hexane</b>

\*IDEM has determined the filters and cyclone are integral to the process. Therefore, the controlled emissions will be used for permit level and state rule applicability determination. The uncontrolled emissions will be used for PSD applicability determination.

Unlimited Potential to Emit (tons/year) - PSD Determination											
Process	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	Total HAPs	Single HAP	
PPE Recycle Dry Line (R1) Compactor/Cutter	2.87	2.87	2.87	0	0	0	0	0	0	0	
PPE Recycle Wash Line (R3) Compactor/Cutter	1.05	1.05	1.05	0	0	0	0	0	0	0	
PPE Recycle Dry Line (R1) Extrusion	0.87	0.87	0.87	0	0	0.29	0	0	0.007	0.003	Formaldehyde
PPE Recycle Wash Line (R3) Extrusion	0.32	0.32	0.32	0	0	0.11	0	0	0.002	0.001	Formaldehyde
System 01 (C1)*	310.85	310.85	310.85	0	0	0	0	0	0	0	
System 03 (C3)*	310.85	310.85	310.85	0	0	0	0	0	0	0	
System 04 (C4)*	510.58	510.58	510.58	0	0	0	0	0	0	0	
System 05 (C5)*	202.73	202.73	202.73	0	0	0	0	0	0	0	
System 06 (C6)*	1,554.27	1554.27	1554.27	0	0	0	0	0	0	0	
PPE Blown Film Lines (H1 - H5) Heat Cleaning Oven	0.43	0.43	0.43	0	0	0.25	0	0	0.005	0.002	Formaldehyde
Natural Gas Combustion	0.05	0.05	0.05	0.05	0.03	0.25	0.05	0	0	0	
Paved Roads	0.00	0.00	0.00	0	0	0	0	0	0	0	Hexane
<b>Total</b>	<b>2,894.93</b>	<b>2,895.08</b>	<b>2,895.08</b>	<b>0.06</b>	<b>2.52</b>	<b>1.03</b>	<b>2.15</b>	<b>3.016</b>	<b>0.06</b>	<b>0.045</b>	<b>Hexane</b>

\*IDEM has determined the filters and cyclone are integral to the process. Therefore, the controlled emissions will be used for permit level and state rule applicability determination. The uncontrolled emissions will be used for PSD applicability determination.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

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

TO: Tim Werner  
Petoskey Plastics, Inc.  
1100 W Grant Street  
Hartford City, IN 47348

DATE: September 10, 2013

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

SUBJECT: Final Decision  
Registration  
009-33461-00026

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:  
Sue Maskaluk – Corporate Treasurer  
Anne Tkacz – IWM Consulting Group  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 6/13/2013

# Mail Code 61-53

IDEM Staff	GHOTOPP 9/10/2013 Petoskey Plastics, Inc 009-33461-00026 Final		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Tim Werner Petoskey Plastics, Inc 1100 W Grant St Hartford City IN 47348 (Source CAATS) via confirmed delivery										
2		Sue Maskaluk Corporate Treasurer Petoskey Plastics, Inc One Petoskey Street Petoskey MI 49770 (RO CAATS)										
3		Blackford County Commissioners 110 West Washington Street Hartford City IN 47348 (Local Official)										
4		Hartford City Council and Mayors Office 700 N. Walnut Street Hartford City IN 47348 (Local Official)										
5		Blackford County Health Department 506 E. Van Cleve Street Hartford City IN 47348-1846 (Health Department)										
6		Ms. Mary Shipley 10968 E 100 S Marion IN 46953 (Affected Party)										
7		Daryl & Lois Hoffman 7750 N. CR 75 E Lizton IN 46149 (Affected Party)										
8		Mr. Dan Baughey 1610 W Water Street #D Hartford City IN 47348 (Affected Party)										
9		Anne Tkacz, PE IWM Consulting Group 3640-C New Vision Drive Fort Wayne IN 46845 (Consultant)										
10		Hartford City Municipal Buliding Corporation 300 S Jefferson Street, PO Box 430 Hartford City IN 47348 (Affected Party)										
11		Occupant 800 N Prospect Hartford City IN 47348 (Affected Party)										
12		Blackford Development Corporation 121 N High Street Hartford City IN 47348 (Affected Party)										
13		Bryant Harvey 11767 E 800 S 27 Hartford City IN 47348 (Affected Party)										
14		Windgate Properties, LLC PO Box 354 Connersville IN 47331 (Affected Party)										
15		Josette Funkhouser 604 N Wabash Hartford City IN 47348 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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# Mail Code 61-53

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Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Jay Hendricks 3701 N 500 E Montpelier IN 47359 (Affected Party)										
2		Cheryl Elaine 1031 W Elm Street Hartford City IN 47348 (Affected Party)										
3		American Electric Power PO Box 16428 Columbus OH 43216 (Affected Party)										
4		Sutton Real Estate Limited Liabilit Co. of Indiana 711 N Miller Ave Marion IN 46952 (Affected Party)										
5		Occupant 1030 W Kickapoo Hartford City IN 47348 (Affected Party)										
6		Charles Leroy & Julia Brown 415 N Wbash Street Hartford City IN 47348 (Affected Party)										
7		Bruce E Miller 407 N Wabash Street Hartford City IN 47348 (Affected Party)										
8		Rick & Judy Smith 1029 W Kickapoo Hartford City IN 47348 (Affected Party)										
9		Richard D & Shirley T Carvel 1109 W Kickapoo Street Hartford City IN 47348 (Affected Party)										
10		Max R Snyder 1417 S Jefferson Street Hartford City IN 47348 (Affected Party)										
11		Occupant 1103 W Kickapoo Hartford City IN 47348 (Affected Party)										
12		Richard Gene & Brian Dean Carvel 1109 W Kickapoo Hartford City IN 47348 (Affected Party)										
13		Occupant 303 N Wabash Street Hartford City IN 47348 (Affected Party)										
14		Conrail Eng. Department 1200 Peachtree Street, PO Box #7-142 Atlanta GA 30309 (Affected Party)										
15		Milus R Skidmore 240 E Vine Montpelier IN 47359 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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# Mail Code 61-53

IDEM Staff	GHOTOPP 9/10/2013 Petoskey Plastics, Inc 33461 (draft/final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handling Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		CMMR LLC 105 N Wabash Hartford City IN 47348 (Affected Party)									
2		Occupant 620 N Wabash Street Hartford City IN 47348 (Affected Party)									
3		Occupant 602 N Wabash Hartford City IN 47348 (Affected Party)									
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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