



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 8, 2010

RE: ICO Polymers North America / 089-29318-00368

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 1/2/08



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REGISTRATION OFFICE OF AIR QUALITY

**ICO Polymers North America
4404 Euclid Avenue
East Chicago, IN 46312**

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.: R089-5327-00368	
Issued by: <i>original signed by</i> Paul Dubenetzky Permits Branch Office of Air Quality	Issuance Date: April 9, 1996

Registration First Notice Only Change No. : 089-9120-000368, issued January 5, 1998

Registration Revision No.: 089-29318-00368	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 8, 2010

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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

The Permittee owns and operates a stationary grinding plastic pellets into powders source.

Source Address:	4404 Euclid Avenue, East Chicago, Indiana 46312
General Source Phone Number:	(219) 392 - 3375
SIC Code:	3089
County Location:	Lake
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) Two (2) pulverizing mills, approved for construction in 1996, each with a capacity of 3,000 pounds per hour of polyethylene pellets, using a dust collector as particulate control.
- (b) One (1) storage silo, approved for construction in 1996, using a dust collector as particulate control.
- (c) One (1) railcar loading station, approved for construction in 1996.
- (d) One (1) grinding mill, identified as EU- 01, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP01.
- (e) One (1) grinding mill, identified as EU- 02, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP02.
- (f) One (1) grinding mill, identified as EU- 04, constructed in 1997, with a maximum capacity of 2,800 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP03.
- (g) One (1) grinding mill, identified as EU- 05, constructed in 1997, with a maximum capacity of 300 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP05.
- (h) One (1) grinding mill, identified as EU- 10, constructed in 1997, with a maximum capacity of 1,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack 10.

- (i) One (1) grinding mill, identified as EU- 11, constructed in 1997, with a maximum capacity of 350 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP11.
 - (j) One (1) grinding mill, identified as EU- 12, constructed in 1997, with a maximum capacity of 1,500 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP12.
 - (k) One (1) grinding mill, identified as EU- 13, constructed in 1997, with a maximum capacity of 700 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP13.
 - (l) One (1) extruder and grinding mill, identified as EU- 14, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP14.
 - (m) One (1) extruder and grinding mill, identified as EU- 15, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP15.
 - (n) One (1) extruder and grinding mill, identified as EU- 16, constructed in 2005, with a maximum capacity of 2,500 and 2,300 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP16.
- Note: The above units grind the resins to the size equal to or greater than 100 micrometers.
- (o) Sixteen (16) storage silos, identified as Silo 01-16, each using a dust collector as particulate control.
 - (p) One natural gas combustion unit with heat input less than 10 MMBtu.

SECTION B GENERAL CONDITIONS

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

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]

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]

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]

- (a) All terms and conditions of permits established prior to Registration No. 089-5327-00368 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)]

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

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

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

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

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

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

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

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]

- (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 twenty percent (20%) 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).

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does require a certification of an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does require a certification of an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Two (2) pulverizing mills, approved for construction in 1996, each with a capacity of 3,000 pounds per hour of polyethylene pellets, using a dust collector as particulate control.
- (b) One (1) storage silo, approved for construction in 1996, using a dust collector as particulate control.
- (c) One (1) railcar loading station, approved for construction in 1996.
- (d) One (1) grinding mill, identified as EU- 01, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP01.
- (e) One (1) grinding mill, identified as EU- 02, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP02.
- (f) One (1) grinding mill, identified as EU- 04, constructed in 1997, with a maximum capacity of 2,800 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP03.
- (g) One (1) grinding mill, identified as EU- 05, constructed in 1997, with a maximum capacity of 300 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP05.
- (h) One (1) grinding mill, identified as EU- 10, constructed in 1997, with a maximum capacity of 1,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack 10.
- (i) One (1) grinding mill, identified as EU- 11, constructed in 1997, with a maximum capacity of 350 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP11.
- (j) One (1) grinding mill, identified as EU- 12, constructed in 1997, with a maximum capacity of 1,500 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP12.
- (k) One (1) grinding mill, identified as EU- 13, constructed in 1997, with a maximum capacity of 700 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP13.
- (l) One (1) extruder and grinding mill, identified as EU- 14, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP14.
- (m) One (1) extruder and grinding mill, identified as EU- 15, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP15.

- (n) One (1) extruder and grinding mill, identified as EU- 16, constructed in 2005, with a maximum capacity of 2,500 and 2,300 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP16.

Note: The above units grind the resins to the size equal to or greater than 100 micrometers.

- (o) Sixteen (16) storage silos, identified as Silo 01-16, each using a dust collector as particulate control.
- (p) One natural gas combustion unit with heat input less than 10 MMBtu.

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

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

D.1.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grinding operation, extruder and mills shall not exceed the following pounds per hour when operating at a process weight rate indicated as follows:

Emission Units	Maximum Process Weight Rate (pounds per hour)	Particulate Emission Limit (pounds per hour)
EU-01	2,200	4.37
EU-02	2,200	4.37
EU-04	2,800	5.14
EU-05	300	1.15
EU-10	1,200	2.91
EU-11	350	1.28
EU-12	1,500	3.38
EU-13	700	2.03
EU-14	900	2.40
EU-15	900	2.40
EU-16	2,300	4.50
Two mills	3,000 (each)	5.38 (each)

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

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

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

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.1.3 Particulate (PM) Control

In order to comply with Condition D.1.1, and to maintain the registration status of the source, the integral cyclone and baghouse or cartridge shall be in operation and control emissions from the grinding mills units EU01-EU13 and extruder and grinding mills units EU14-EU16 and two pulverizing mills at all time, while the associated units are in operation.

**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).

Company Name:	ICO Polymers North America
Address:	4404 Euclid Avenue
City:	East Chicago, Indiana 46312
Phone No.:	(219) 392 - 3375
Registration No.:	R 089-5327-00368

I hereby certify that ICO Polymers North America is :	<input type="checkbox"/> still in operation. <input type="checkbox"/> no longer in operation.
I hereby certify that ICO Polymers North America is :	<input type="checkbox"/> in compliance with the requirements of Registration No. 089-5327-00368. <input type="checkbox"/> not in compliance with the requirements of Registration No. 089-5327-00368.

Authorized Individual (typed):
Title:
Signature:
Date:

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

Noncompliance:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Revision

Source Description and Location

Source Name:	ICO Polymers North America
Source Location:	4404 Euclid Avenue, East Chicago, IN 46312
County:	Lake County
SIC Code:	3089
Registration No. :	089-5327-00368
Registration Revision No.:	089-29318-00368
Permit Reviewer:	Renee Traivaranon

On June 6, August 18 and August 30, 2010, the Office of Air Quality (OAQ) received an application from ICO Polymers North America requesting to add unpermitted emissions units to an existing grinding plastic pellets into powders source.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Registration Notice Only Change No. 089-9120-00368, issued on January 5, 1998.
- (b) Registration No. 089-5327-00368, issued on April 9, 1996.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Attainment effective June 4, 2010. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
<p>¹The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.</p>	

- (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. Lake 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_{2.5}**
U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake county as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**
Lake County has been classified as attainment or unclassifiable in Indiana for all other 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 and hazardous air pollutants are counted toward the determination of 326 IAC 2-5.1-2 (Registrations) applicability.

Background and Description of Permitted Emission Units

The source consists of the following permitted emission units:

- (a) Two (2) pulverizing mills, approved for construction in 1996, each with a capacity of 3,000 pounds per hour of polyethylene pellets, using a dust collector as particulate control.
- (b) One (1) storage silo, approved for construction in 1996, using a dust collector as particulate control.
- (c) One (1) railcar loading station, approved for construction in 1996.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission units:

- (d) One (1) grinding mill, identified as EU 01, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP01.

- (e) One (1) grinding mill, identified as EU 02, constructed in 2002, with a maximum capacity of 2,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP02.
- (f) One (1) grinding mill, identified as EU 04, constructed in 1997, with a maximum capacity of 2,800 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP03.
- (g) One (1) grinding mill, identified as EU 05, constructed in 1997, with a maximum capacity of 300 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP05.
- (h) One (1) grinding mill, identified as EU 10, constructed in 1997, with a maximum capacity of 1,200 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack 10.
- (i) One (1) grinding mill, identified as EU 11, constructed in 1997, with a maximum capacity of 350 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP11.
- (j) One (1) grinding mill, identified as EU 12, constructed in 1997, with a maximum capacity of 1,500 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP12.
- (k) One (1) grinding mill, identified as EU 13, constructed in 1997, with a maximum capacity of 700 pounds per hour of polyethylene pellets, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP13.
- (l) One (1) extruder and grinding mill, identified as EU 14, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and baghouse as particulate control, and exhausting to stack EP14.
- (m) One (1) extruder and grinding mill, identified as EU 15, constructed in 1997, with a maximum capacity of 1100 and 900 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP15.
- (n) One (1) extruder and grinding mill, identified as EU 16, constructed in 2005, with a maximum capacity of 2,500 and 2,300 pounds per hour of polyethylene pellets respectively, using an integral cyclone and cartridge as particulate control, and exhausting to stack EP16.

Note: The above units grind the resins to the size equal equal to or greater than 100 micrometers.

- (o) Sixteen (16) storage silos, identified as Silo 01-16, each using a dust collector as particulate control.
- (p) One natural gas combustion unit with heat input less than 10 MMBtu.

"Integral Part of the Process" Determination

The Permittee stated that the cyclone should be considered an integral part of the process because all cyclones are considered material sizing machines that separate out the materials that are greater than the size required. Each 40,000 pounds of pellets grinded (1,500 pounds per hour) results in 5 pounds of pellets to be recycled from the cyclones and this pellet material costs \$100 per pound.

IDEM, OAQ has evaluated this information and agrees that the cyclones should be considered an integral part of the process. This determination is based on the fact that this process can't operate without the cyclone and there is positive economic affect to justify that. Therefore, the permitting level will be determined using the potential to emit after the cyclone. Operating conditions in the proposed permit will specify that this integral cyclone shall operate at all times when the grinding is in operation.

Enforcement Issues

There is no enforcement related to this application.

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 ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
EU01-EU13 ⁽¹⁾	4.93	4.93	4.93	--	--	-	--	--	--
EU14-EU16 ⁽¹⁾⁽³⁾	1.80	1.80	1.80	--	--	10.3	--	--	--
Combustion	0.01	0.1	0.1	0.01	0.8	0.04	0.6	--	--
Two pulverizing mills ⁽²⁾	7.88	7.88	7.88	--	--	--	--	--	--
Fugitive Emissions	--	--	--	--	--	--	--	--	--
Total PTE of Entire Source	14.6	14.7	14.7	0.01	0.8	10.3	0.6	--	--
Registration Levels	25	25	25	25	25	25	25	25	10
Exemption Levels	5	5	5	10	10	10	25	25	10
-- = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". (1) The PTE of PM was submitted by source with the emission factor 0.0001 lb/lb. Assumption PM=PM10=PM2.5 (2) The emission factor of 0.6 lb/ton was used as in CP 089-5327-00368 issued for this source. (3) The addition of the unpermitted units is considered as registration revision under 326 IAC 2-5.5-6(g) because VOC emissions are greater than 10 tons per year.									

Criteria Pollutants

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) 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 Revision to the Registration will be issued.

Hazardous Air Pollutants

- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) 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.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (c) 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.

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (b) 326 IAC 2-1.1-5 (Nonattainment New Source Review)
This existing source is not a major stationary source, under 326 IAC 2-1.1-5 (Nonattainment New Source Review), because the potential to emit particulate matter with a diameter less than 2.5 micrometers (PM2.5), is less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.
- (c) 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.

- (d) **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 located in Lake County, it has actual emissions of NOx and VOC of less than twenty-five (25) tons per year, 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.
- (e) **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 twenty percent (20%) 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.
- (f) **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.

Grinding Operation

- (g) **326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**
 Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grinding operation shall not exceed the following pounds per hour when operating at a process weight rate as follows:

Emission Units	Maximum Process Weight Rate (pounds per hour)	Particulate Emission Limit (pounds per hour)
EU-01	2,200	4.37
EU-02	2,200	4.37
EU-04	2,800	5.14
EU-05	300	1.15
EU-10	1,200	2.91
EU-11	350	1.28
EU-12	1,500	3.38
EU-13	700	2.03
EU-14	900	2.40
EU-15	900	2.40
EU-16	2,300	4.50
Two mills*	3,000 (each)	5.38 (each)

* These units were constructed in 1996 and permitted under CP 089-5327-00368 for the source.

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

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

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

The integral cyclone and the baghouse or dust collector shall be in operation at all times while the associated grinding mill is in operation, in order to comply with this limit.

- (h) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The unlimited VOC potential emissions from each unit is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply.
- (i) There are no other 326 IAC 8 Rules that are applicable to this source.

Compliance Determination Requirements

The compliance determination requirements applicable to this source are as follows:

Emission Unit/Control	Operating Parameters	Frequency
Integral cyclone and baghouse	Used PM Control	Operate at all time

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 June 6, August 18 and August 30, 2010.

The operation of this source shall be subject to the conditions of the attached Registration Revision No. 089-29318-00368. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Ms. Renee Traivaranon 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) 324-5615 or toll free at 1-800-451-6027 extension 4-5615.
- (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

**Appendix A: Emissions Calculations
Emissions from Grinding Mills**

**Company Name: ICO Polymers North America
Address City IN Zip: 4404 Euclid Avenue, East Chicago, IN 46312
Permit Number: R 089-29318-00368
Reviewer: Renee Traivaranon
Date: December 2, 2010**

Emission Unit	Material Process Rate (lb/hr)	Emission Factor* (Pounds/Pounds)	Potential to Emit	Potential to Emit	326 IAC 6-3-2 Emission Limitation (lb/hr)
			(Pounds/hour)	(Tons/year)	
EU-01	2200	0.0001	0.22	0.9636	4.37
EU-02	2200	0.0001	0.22	0.9636	4.37
EU-04	2800	0.0001	0.28	1.2264	5.14
EU-05	300	0.0001	0.03	0.1314	1.15
EU-10	1200	0.0001	0.12	0.5256	2.91
EU-11	350	0.0001	0.035	0.1533	1.28
EU-12	1500	0.0001	0.15	0.657	3.38
EU-13	700	0.0001	0.07	0.3066	2.03
EU-14	900	0.0001	0.09	0.3942	2.40
EU-15	900	0.0001	0.09	0.3942	2.40
EU-16	2300	0.0001	0.23	1.0074	4.50
Mill**	3000	0.0003	0.9	3.942	5.38
Mill**	3000	0.0003	0.9	3.942	5.38
Total			10.6653	tons/yr	

Methodology

PTE of PM (lbs/hour) = [Maximum Hourly Throughput (tons/hr)] x [0.0001 lb/lb]
PTE of PM (tons/year) = [PTE of PM or PM10 (lbs/hour)] x [8760 hours/year] / [2000 lbs/ton]
Emission Limitation of 326 IAC 6-3-2 (lbs/hr) =4.1* Max throughput (tons/hr)^.67

Notes: *The 0.0001 lb/lb emission factor was provided by the source indicated that it was based on their specific operation and record keeping, also taking into account that the cyclones are considered integral part of the process.

** The 0.6 lb/ton emission factor was used for the mills because it was the original basis for the PTE in the CP 089-5327-00368 issued on April 4, 1996.

**Appendix A: Emissions Calculations
Plastic Extrusions**

**Company Name: ICO Polymers North America
Address City IN Zip: 4404 Euclid Avenue, East Chicago, IN 46312
Permit Number: M 089-29318-00368
Reviewer: Renee Traivaranon
Date: December 2, 2010**

Equipment ID	Component	Process Weight Rate (lb/hr)	VOC		
			Emission Factor (lb/ton)	PTE (lb/hr)	PTE (tpy)
EU-14	Resin	1,100	1	0.550	2.409
EU-15	Resin	1,100	1	0.550	2.409
EU-16	Resin	2,500	1	1.250	5.475
Totals		4,700		2.350	10.3

Methodology

PTE of VOC (lb/hr) = Max Process Rate (lb/hr) x Emission Factor (lbs/2,000 lbs)

PTE of VOC (tpy) = PTE of VOC (lbs/hr) x 8760 hrs/yr x 1 ton/2000 lbs

Notes

Alternative Emission Factor for VOC has also been used. This EF is from the average of the stack test results from polyethylene plastic extruder

**Appendix A: Emissions Calculations
Natural Gas Combustion Only**

**Company Name: ICO Polymers North America
Address City IN Zip: 4404 Euclid Avenue, East Chicago, IN 46312
Permit Number: M 089-29318-00368
Reviewer: Renee Traivaranon
Date: December 2, 2010**

Heat Input Capacity
MMBtu/hr

1.8

Potential Throughput
MMCF/yr

15.4

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.01	0.1	0.005	0.8	0.04	0.6

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

See page 4 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
HAPs Emissions**

Company Name: ICO Polymers North America
Address City IN Zip: 4404 Euclid Avenue, East Chicago, IN 46312
Permit Number: M 089-29318-00368
Reviewer: Renee Traivaranon
Date: December 2, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.612E-05	9.214E-06	5.759E-04	1.382E-02	2.611E-05

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.839E-06	8.446E-06	1.075E-05	2.918E-06	1.612E-05

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations
Summary**

Company Name: ICO Polymers North America
Address City IN Zip: 4404 Euclid Avenue, East Chicago, IN 46312
Permit Number: R 089-29318-00368
Reviewer: Renee Traivaranon
Date: December 2, 2010

Emissions Units	Potential to Emissions (tons/year)							
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	HAPs
EU01-EU13	4.93	4.93	4.93	--	--	--	--	--
EU14-EU16	1.8	1.8	1.8	--	--	10.3	--	--
Combustion	0.01	0.1	0.1	0.01	0.8	0.04	0.60	--
Two pulverizing mills	7.88	7.88	7.88	--	--	--	--	--
Fugitive Emissions	--	--	--	--	--	--	--	--
Total PTE of Entire Source	14.62	14.71	14.71	0.01	0.80	10.34	0.60	<25

-- = negligible



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

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

TO: James Coward
ICO Polymers North America
4404 Euclid Avenue
East Chicago, IN 46312-3045

DATE: December 8, 2010

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

SUBJECT: Final Decision
Registration
089-29318-00368

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:
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.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 12/8/2010 ICO Polymers North America 089-29318-00368 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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											Remarks
1		James Coward ICO Polymers North America 4404 Euclid Avenue East Chicago IN 46312-3045 (Source CAATS)									
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)									
3		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)									
4		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)									
5		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)									
6		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)									
7		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)									
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)									
9		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)									
10		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)									
11		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)									
12		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)									
13		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)									
14		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)									
15		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)									

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											Remarks
1		Karen 8212 Madison Ave Munster IN 46321-1627 (Affected Party)									
2		Calumet Township Trustee 31 E 5th Avenue Gary IN 46402 (Affected Party)									
3		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)									
4		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)									
5		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)									
6		Matthew Accardi Enviro-Science (of Delaware), Inc. 111 Howard Blvd., Suite 108 Mt. Arlington NJ 07586 (Consultant)									
7		Mary Morris Leonard 2301 East Columbus Drive East Chicago IN 46312 (Affected Party)									
8		Paula Benchik 100 W. Chicago Ave East Chicago IN 46312 (Affected Party)									
9		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)									
10		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)									
11		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
12											
13											
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15											

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